


# LIFTING & RIGGING

## PRODUCTS & SERVICES FOR CONSTRUCTION

MAZZELLA®

MAZZELLACOMPANIES.COM

MAZZELLA®

# YOUR ONE SOURCE FOR LIFTING & RIGGING SOLUTIONS FOR CONSTRUCTION

**PLEASE NOTE:** This catalog is tailored for typical lifting and rigging products used in the construction industry. We have many other products and sizes available.



# CONTENTS

# CRANE ROPES

## MAZZELLA IS YOUR ONE SOURCE FOR HIGH-PERFORMANCE CRANE ROPE SERVICES AND SOLUTIONS!

We have mobile spooling trucks to provide reliable, 24-hour, on-site service to all of our mobile crane customers. Our spooling units were designed and built to handle a variety of applications in the mobile crane industry with the ultimate goal of providing our crane customers with as little down time as possible!

We also employ certified technicians who can perform an in-field poured socket replacement for your high-performance crane rope. We come to you with all of the tools and equipment necessary and will get your crane up and running in no time!


**FOR ORDERS OR QUESTIONS, CALL 800-362-4601, OR GO TO: MAZZELLACOMPANIES.COM**

MAZZELLA®

## LARGE INVENTORY… MAINTAINED FOR IMMEDIATE DELIVERY

**Stocking well over 2,000,000 feet of wire rope in our various locations.**

- In sizes from 1/4" to 3" diameter and 9 mm to 52 mm diameter
- Domestic and Non-Domestic
- In stock and ready for same or next day shipment from one of our many service centers

BRIDON · BEKAERT
THE ROPES GROUP

Bethlehem Wire Rope
Wirerope Works, Inc.

WireCo WorldGroup

Union®
A WIreCo® WorldGroup Brand

CASAR

WIRE ROPE INDUSTRIES

Teufelberger
TOGETHER IN MOTION

PYTHON
HIGH PERFORMANCE WIRE ROPE

LOOS & CO. INC.

# TOWER CRANE ROPES

BRIDON · BEKAERT
THE ROPES GROUP

### Endurance® 35LS
(Main Hoist Rope)

- Rotation Resistant
- Flexible construction
- Excellent spooling

### Endurance Dyform® 34LR
(Main Hoist Rope)

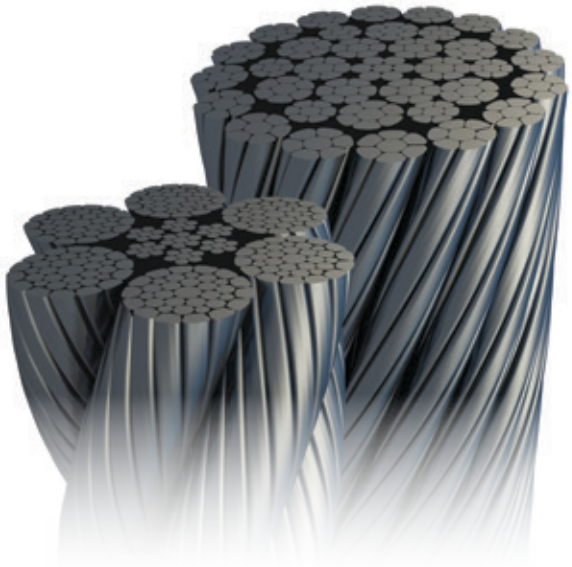
- Rotation Resistant
- Reduced downtime
- Longer life
- Recommended for multi-layer applications
- Reduced sheave wear

### Endurance Dyform® 6
(Derricking Rope & Trolley Rope)

- Long service life
- Crush resistant
- Lower downtime
- Lower lifetime cost
- Robust construction

### 6 x 19 Class and 6 x 36 Class
(Derricking Rope & Trolley Rope)

- Single Layer Ropes
- Consistent performance with lower initial cost



# MOBILE LATTICE BOOM CRANE ROPES

BRIDON · BEKAERT
THE ROPES GROUP

### Endurance 8RR
(Main Hoist Rope)

- Rotation Resistant
- Consistent performance with lower initial cost
- Suitable for single-part and multi-part reeving

### Constructex®
(Boom Hoist Rope)

- Exceptional service life in the most demanding applications
- High breaking force
- Excellent Crush Resistance

### Endurance Dyform® 18
(Main Hoist Rope & Whipline Hoist Rope)

- Rotation Resistant Dyform Hoist Rope
- Long service life
- Crush Resistant
- Recommended for multi-layer spooling
- Suitable for single-part and multi-part reeving

### Endurance 19
(Main Hoist Rope & Whipline Hoist Rope)

- Rotation Resistant
- Consistent performance with lower initial cost
- Suitable for single-part reeving

### Endurance Dyform® 6
(Boom Hoist Rope & Main Hoist Rope)

- Tough six strand wire rope
- High breaking force
- Long service life
- Crush resistant
- Recommended for multi-layer spooling
- Suitable as a hoist rope where height of lift is low and rotation is not critical

### Endurance Dyform® 34LR
(Main Hoist Rope & Whipline Rope)

- Rotation Resistant Dyform Hoist Rope
- Long service life
- Crush resistant
- Recommended for multi-layer coiling
- Recommended for high lifts
- Suitable for single-part and multi-part reeving

### 6 x 19 Class & 6 x 36 Class
(Main Hoist Rope & Boom Hoist Rope)

- Single Layer Ropes
- Consistent performance with lower initial cost
- Recommended for main hoist rope where height of lift is not critical

# LIFTING & RIGGING

**MAZZELLA HAS ONE OF THE LARGEST INVENTORIES OF LIFTING AND RIGGING PRODUCTS IN THE INDUSTRY, INCLUDING WIRE ROPE, HOISTS, HOIST PARTS, PULLERS, RIGGING HARDWARE PRODUCTS, AND OTHER RELATED DISTRIBUTED PRODUCTS.**

The Mazzella name is synonymous with quality slings. Mazzella's quality slings include chain, wire rope, nylon, polyester, cordage, and high-performance synthetic slings.

We also provide wire rope assemblies—both large and small. We manufacture bridge cables, crane cables, steel mill cables and thousands of OEM assemblies. We can also manufacture assemblies with standard or custom end fittings. Special testing and tolerance requirements are also available.

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## ADDED TO OUR VAST SELECTION OF RIGGING PRODUCTS, WE PROVIDE BASIC LIFTING AND RIGGING TRAINING TO ANY CLASS SIZE OR JOBSITE!

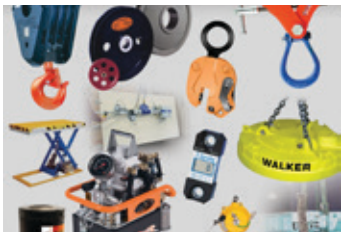
If you require a specific training course for OSHA compliance, Mazzella can assist you in creating a safe and reliable workplace. We qualify our trainers by requiring them to complete an internal train the trainer program (which trains to applicable OSHA and ASME standards and training technique), extensive field experience, and additional training from third-party entities, such as Crosby, CM, Harrington, Gorbel, and Industrial Training International (ITI).

*SLINGS & ASSEMBLIES*

*RIGGING HARDWARE*

*WIRE ROPE*

*HOISTS / HOIST PARTS*




*LIFTING PRODUCTS*


*ALLOY & CARBON CHAIN*

*CORDAGE*

*LOAD SECUREMENT*

**FOR ORDERS OR QUESTIONS, CALL 800-362-4601, OR GO TO: MAZZELLACOMPANIES.COM**

# WIRE ROPE SLINGS, ALLOY CHAIN SLINGS, AND SYNTHETIC SLINGS

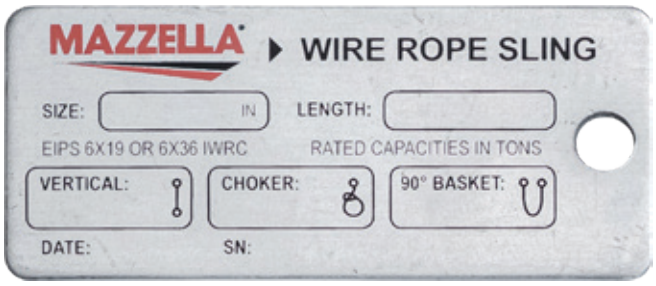
We are a leader in fabrication of wire rope slings, chain slings and synthetic sling products. We also make ergonomic high-performance specialty slings to meet your customized needs.

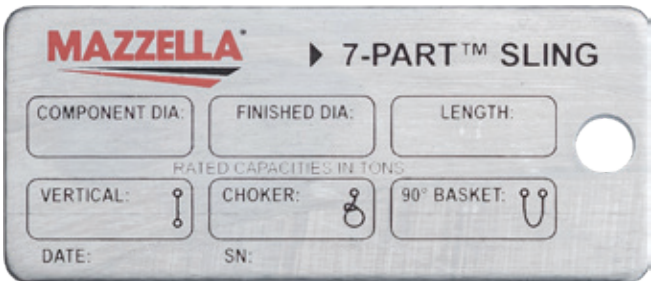
- Wire Rope Slings
- Alloy Chain Slings
- Synthetic High-Performance Roundslings and Wear Pads
- Synthetic Web Slings and Wear Pads
- Metal Mesh Slings
- Synthetic Rope Slings
- Synthetic Single Path Roundslings

## Sling Operation & Safety

The American Society of Mechanical Engineers (ASME) has issued guidelines for the safe operation and training of personnel when operating slings (B30.9). We provide training in compliance with ASME standards, including product selection requirements, inspection procedures, operating cautions and the effects of environmental and rigging practices.

# OSHA SLING TAG REQUIREMENTS




Employers must use only slings that have permanently affixed and legible **identification markings** (tags) as prescribed by the manufacturer, and that indicate the recommended safe working load for the type(s) of hitch(es) used, the angle upon which it is based, and the number of legs, if more than one. **All Mazzella Companies** slings will have legible identification tags (sample wire rope sling tag above).

In addition, OSHA is requiring that, in using the sling, employers follow the safe working load capacity information on the identification markings affixed to slings by the sling manufacturer.

**Further, if the sling is missing its identification marking, consistent with the latest ASME / ANSI B30.9 standard, employers must remove the sling from service until they reaffix the identification markings.**

**OSHA has updated its standards regulating slings for general industry** (§1910.184) and construction (§1926.251). This final rule became effective on July 8, 2011.

**In summary, the new changes include:**

- Removing all the load capacity tables for slings that were in the previous OSHA standards
- Sling Markings—Employers now must use only slings with permanently affixed identification markings that show the maximum load capacity for each sling.
- Shackle Markings—The final rule also provides similar protection for shackles, requiring them to also show rated capacity.

In the past, some companies did not require the wire rope slings being used at their sites to be marked with a tag and/or rated capacity and based on the original OSHA 1910 regulations, it wasn't required.

**Now, with this change, ALL wire rope slings must be marked—no exceptions!**

The load capacity tables previously designated in these OSHA standards, were based on the 1971 ASME / ANSI B30.9 standard, are now obsolete and no longer conform to the load capacity tables of the updated B30.9 industry standards. The outdated tables are being replaced with a requirement that prohibits employers from loading slings in excess of the recommended safe working load as shown on the permanently affixed identification markings.

**Basically, this revision prohibits the use of any sling that does not have a permanently affixed identification tag.**

## Sling Identification Requirements

**Each sling shall be marked to show:**

**A.** Name or trademark of manufacturer;
**B.** Rated loads for the type(s) of hitch(es) used and the angle upon which it is based;
**C.** Diameter or size
**D.** Number of legs, if more than one

Sling identification shall be done by the sling manufacturer.

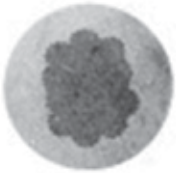
Sling identification should be maintained by the user so as to be legible during the life of the sling.

**We place a unique identifier / serial number on all the slings we manufacture.**

# SINGLE-PART BODY MECHANICALLY SPLICED SLINGS

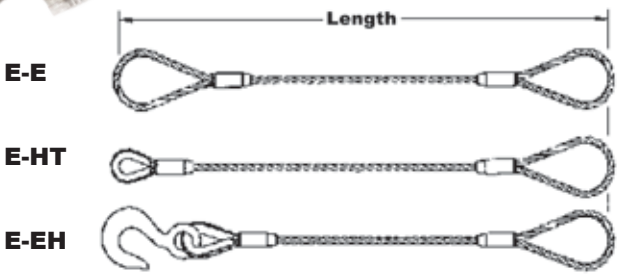
Eyes are formed using the flemish eye splice. Ends are secured by pressing a metal sleeve over the ends of the strands of the splice. Pull is directly along the centerline of rope and eye. Gives most efficient use of rope capacity and is economical.

**Swaging Provides Positive Grip**
This cutaway of a metal sleeve strands, swaged onto a splice shows how metal "flows" into valleys between strands to positively prevent ends from unlaying when sling is used within its rated capacity.



**Flemish Eye Splice**
In the standard flemish eye mechanical splice, rope is separated into two parts—3 adjacent strands, and 3 adjacent strands and core. These two parts are then re-laid back in opposite directions to form an eye, and ends are secured with a swaged metal sleeve.

**WARNING** | SEE WARNING INFORMATION ON PAGE 20.




| | Rope Diameter (inches) | Rated Capacity—Tons * | | | | | | Minimum Sling Length (When Using Standard Eyes) | Standard Eye Size (inches) W x L | Thimble Eye Size (inches) W x L | Eye Hook Cap. Tons |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Vertical | ** Choker Hitch | Basket Hitch | | | | | | | |
| | | | | | 60° | 45° | 30° | | | | |
| 6 x 19 IWRC | 1/4 | .65 | .48 | 1.3 | 1.1 | .91 | .65 | 1' 6" | 2 x 4 | 7/8 x 1-5/8 | 3/4 |
| | 5/16 | 1 | .74 | 2 | 1.7 | 1.4 | 1 | 1' 9" | 2-1/2 x 5 | 1-1/16 x 1-7/8 | 1 |
| | 3/8 | 1.4 | 1.1 | 2.9 | 2.5 | 2 | 1.4 | 2' | 3 x 6 | 1-1/8 x 2-1/8 | 1-1/2 |
| | 7/16 | 1.9 | 1.4 | 3.9 | 3.4 | 2.7 | 1.9 | 2' 3" | 3-1/2 x 7 | 1-1/4 x 2-1/4 | 2 |
| | 1/2 | 2.5 | 1.9 | 5.1 | 4.4 | 3.6 | 2.5 | 2' 6" | 4 x 8 | 1-1/2 x 2-3/4 | 3 |
| | 9/16 | 3.2 | 2.4 | 6.4 | 5.5 | 4.5 | 3.2 | 2' 9" | 4-1/2 x 9 | 1-1/2 x 2-3/4 | 3 |
| | 5/8 | 3.9 | 2.9 | 7.8 | 6.8 | 5.5 | 3.9 | 3' | 5 x 10 | 1-3/4 x 3-1/4 | 5 |
| | 3/4 | 5.6 | 4.1 | 11 | 9.7 | 7.9 | 5.6 | 3' 6" | 6 x 12 | 2 x 3-3/4 | 5 |
| | 7/8 | 7.6 | 5.6 | 15 | 13 | 11 | 7.6 | 4' | 7 x 14 | 2-1/4 x 4-1/4 | 7-1/2 |
| | 1 | 9.8 | 7.2 | 20 | 17 | 14 | 9.8 | 4' 6" | 8 x 16 | 2-1/2 x 4-1/2 | 10 |
| | 1-1/8 | 12 | 9.1 | 24 | 21 | 17 | 12 | 5' | 9 x 18 | 2-7/8 x 5-1/8 | 10 |
| 6 x 36 IWRC | 1-1/4 | 15 | 11 | 30 | 26 | 21 | 15 | 5' 6" | 10 x 20 | 2-7/8 x 5-1/8 | 15 |
| | 1-3/8 | 18 | 13 | 36 | 31 | 25 | 18 | 6' | 11 x 22 | 3-1/2 x 6-1/4 | 15 |
| | 1-1/2 | 21 | 16 | 42 | 37 | 30 | 21 | 7' | 12 x 24 | 3-1/2 x 6-1/4 | AH-22 |
| | 1-5/8 | 24 | 18 | 48 | 42 | 35 | 24 | 8' | 13 x 26 | 3-1/2 x 6-1/4 | AH-30 |
| | 1-3/4 | 28 | 21 | 57 | 49 | 40 | 28 | 8' | 14 x 28 | 4 x 8 | AH-37 |
| | 2 | 37 | 28 | 73 | 63 | 52 | 37 | 9' | 16 x 32 | 4-1/2 x 9 | AH-45 |
| | 2-1/4 | 44 | 35 | 89 | 77 | 63 | 44 | 10' | 18 x 36 | 6 x 12 | AH-45 |
| | 2-1/2 | 54 | 42 | 109 | 94 | 77 | 54 | 11' | 20 x 40 | 7 x 14 | AH-60 |
| | 2-3/4 | 65 | 51 | 130 | 113 | 92 | 65 | 12' | 22 x 44 | – | – |
| | 3 | 77 | 60 | 153 | 133 | 108 | 77 | 13' | 24 x 48 | – | – |
| | 3-1/2 | 102 | 79 | 203 | 143 | 144 | 102 | 14' | 28 x 56 | – | – |

* Rated Capacities Basket Hitch based on D/d Ratio of 25.
Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.
Rated Capacities based on design factor of 5.

** See Choker Hitch Rated Capacity Adjustment.
Sling angles less than 30 degrees shall not be used.

**Above capacities based on EIP rope.**

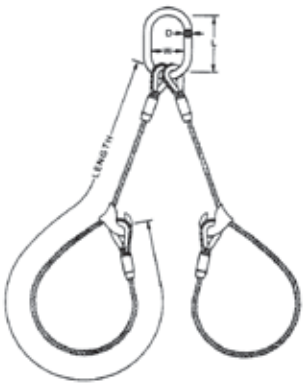
# SINGLE-PART BODY MECHANICALLY SPLICED SLINGS WITH CHOKER HOOKS

**WARNING** | SEE WARNING INFORMATION ON PAGE 20.

All wire rope diameters in inches.
All capacities in tons of 2,000 lbs.
All eye and fitting dimensions in inches.

| Rope Diameter 6 x 19 IWRC 6 x 36 IWRC | Min. Sling Length When Using Std. Eyes | Rated Capacity Tons * | Eye Dimensions | | Slip-Thru Thimble | | |
|---|---|---|---|---|---|---|---|
| | | | | | Number | Dimensions | |
| | | | A | B | | L | W |
| 1/4 | 1' 6" | .48 | 2 | 4 | W-2 | 4-1/8 | 2-1/8 |
| 5/16 | 1' 9" | .74 | 2-1/2 | 5 | W-2 | 4-1/8 | 2-1/8 |
| 3/8 | 2' 0" | 1.1 | 3 | 6 | W-2 | 4-1/8 | 2-1/8 |
| 7/16 | 2' 3" | 1.4 | 3-1/2 | 7 | W-3 | 4-3/8 | 2-3/8 |
| 1/2 | 2' 6" | 1.9 | 4 | 8 | W-3 | 4-3/8 | 2-3/8 |
| 9/16 | 2' 9" | 2.4 | 4-1/2 | 9 | W-3 | 4-3/8 | 2-3/8 |
| 5/8 | 3' 0" | 2.9 | 5 | 10 | W-4 | 6-5/8 | 3-3/8 |
| 3/4 | 3' 6" | 4.1 | 6 | 12 | W-4 | 6-5/8 | 3-3/8 |
| 7/8 | 4' 0" | 5.6 | 7 | 14 | W-5 | 7-1/8 | 3-3/4 |
| 1 | 4' 6" | 7.2 | 8 | 16 | W-5 | 7-1/8 | 3-3/4 |
| 1-1/8 | 5' 0" | 9.1 | 9 | 18 | W-6 | 8-3/8 | 4-3/8 |
| 1-1/4 | 5' 6" | 11 | 10 | 20 | W-6 | 8-3/8 | 4-3/8 |
| 1-3/8 | 6' 0" | 13 | 11 | 22 | W-7 | 9-1/2 | 5 |
| 1-1/2 | 7' 0" | 16 | 12 | 24 | W-7 | 9-1/2 | 5 |

| Rope Diameter 6 x 19 IWRC 6 x 36 IWRC | Min. Sling Length When Using Std. Eyes | Rated Capacity—Tons * 2-Leg Choker Hitch *** | | | Alloy Oblong Link | | |
|---|---|---|---|---|---|---|---|
| | | 60° | 45° | 30° | D | L | W |
| 1/4 | 1' 6" | 1.1 | .91 | .65 | 1/2 | 5 | 2-1/2 |
| 5/16 | 1' 9" | 1.7 | 1.4 | 1 | 5/8 | 6 | 3 |
| 3/8 | 2' 0" | 2.5 | 2 | 1.4 | 3/4 | 5-1/2 | 2-3/4 |
| 7/16 | 2' 3" | 3.4 | 2.7 | 19. | 7/8 | 6 | 3 |
| 1/2 | 2' 6" | 4.4 | 3.6 | 2.5 | 3/4 | 5-1/2 | 2-3/4 |
| 9/16 | 2' 9" | 5.5 | 4.5 | 3.2 | 1 | 8 | 4 |
| 5/8 | 3' 0" | 6.8 | 5.5 | 3.9 | 1 | 8 | 4 |
| 3/4 | 3' 6" | 9.7 | 7.9 | 5.6 | 1 | 8 | 4 |
| 7/8 | 4' 0" | 13 | 11 | 7.6 | 1-1/4 | 8-3/4 | 4-3/8 |
| 1 | 4' 6" | 17 | 14 | 9.8 | 1-1/4 | 8-3/4 | 4-3/8 |
| 1-1/8 | 5' 0" | 21 | 17 | 12 | 1-1/2 | 12 | 6 |
| 1-1/4 | 5' 6" | 26 | 21 | 15 | 1-3/4 | 12 | 6 |
| 1-3/8 | 6' 0" | 31 | 25 | 18 | 1-3/4 | 12 | 6 |
| 1-1/2 | 7' 0" | 37 | 30 | 21 | 2 | 14 | 7 |



* Rated Capacities Basket Hitch based on D/d ratio of 25. Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter. Rated Capacities based on design factor of 5.
Sling angles less than 30° shall not be used.

*** See Choker Hitch Rated Capacity Adjustment.

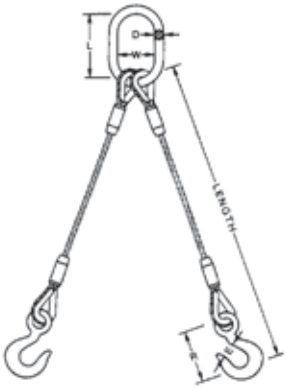
Rated Capacity for two-legged bridles, whether used as chokers or with hooks or other end fixtures, is affected by rigging angles, the same as straight slings in basket hitches.

**Note:** *Reduction in rated capacity as legs spread to wider lifting connections.*

# TWO-LEG BRIDLE MECHANICALLY SPLICED SLINGS

Multi-legged bridles—with two, three or four straight legs—are offered with plain eyes, thimble eyes, open or closed sockets, shackles and turnbuckles. **If required, rings or carbon pear links can be supplied rather than the oblong-shaped links.**

**WARNING** | SEE WARNING INFORMATION ON PAGE 20.




All wire rope diameters in inches.
All capacities in tons of 2,000 lbs.
All eye and fitting dimensions in inches.

| Rope Diameter 6 x 19 IWRC 6 x 36 IWRC | Min. Sling Length When Using Std. Eyes | Rated Capacity Tons * 2-Leg Choker Hitch *** | | | Alloy Oblong Link | | | Hook | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 60° | 45° | 30° | D | L | W | WLL ** | E | R |
| 1/4 | 1' 3" | 1.1 | .91 | .65 | 1/2 | 5 | 2-1/2 | 3/4 | .90 | 4.42 |
| 5/16 | 1' 6" | 1.7 | 1.4 | 1 | 5/8 | 6 | 3 | 1 | .90 | 4.42 |
| 3/8 | 1' 8" | 2.5 | 2 | 1.4 | 3/4 | 5-1/2 | 2-3/4 | 1-1/2 | .93 | 5.64 |
| 7/16 | 1' 10" | 3.4 | 2.7 | 19. | 7/8 | 6 | 3 | 2 | 1 | 5.64 |
| 1/2 | 2' 0" | 4.4 | 3.6 | 2.5 | 3/4 | 5-1/2 | 2-3/4 | 3 | 1.13 | 6.39 |
| 9/16 | 2' 2" | 5.5 | 4.5 | 3.2 | 1 | 8 | 4 | 3 | 1.13 | 6.39 |
| 5/8 | 2' 4" | 6.8 | 5.5 | 3.9 | 1 | 8 | 4 | 5 | 1.47 | 7.90 |
| 3/4 | 2' 9" | 9.7 | 7.9 | 5.6 | 1 | 8 | 4 | 5 | 1.47 | 7.90 |
| 7/8 | 3' 3" | 13 | 11 | 7.6 | 1-1/4 | 8-3/4 | 4-3/8 | 7 | 1.75 | 10.09 |
| 1 | 3' 6" | 17 | 14 | 9.8 | 1-1/4 | 8-3/4 | 4-3/8 | 11 | 2.29 | 12.43 |
| 1-1/8 | 4' 0" | 21 | 17 | 12 | 1-1/2 | 12 | 6 | 11 | 2.29 | 12.43 |
| 1-1/4 | 4' 6" | 26 | 21 | 15 | 1-3/4 | 12 | 6 | 15 | 2.50 | 13.94 |
| 1-3/8 | 5' 0" | 31 | 25 | 18 | 1-3/4 | 12 | 6 | 15 | 2.50 | 13.94 |
| 1-1/2 | 5' 6" | 37 | 30 | 21 | 2 | 14 | 7 | 22 | 3.30 | 17.09 |
| 1-3/4 | 9' | 49 | 40 | 28 | 2-1/4 | 8 | 16 | 37 | 4.25 | 24.81 |
| 2 | 10' | 56 | 52 | 37 | 2-1/2 | 8 | 16 | 45 | 4.75 | 27.44 |

* Rated Capacities Basket Hitch based on D/d ratio of 25. Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter. Rated Capacities based on design factor of 5.
Sling angles less than 30° shall not be used.

** Working Load Limit.

Rated Capacity for two-legged bridles, whether used as chokers or with hooks or other end fixtures, is affected by rigging angles, the same as straight slings in basket hitches.

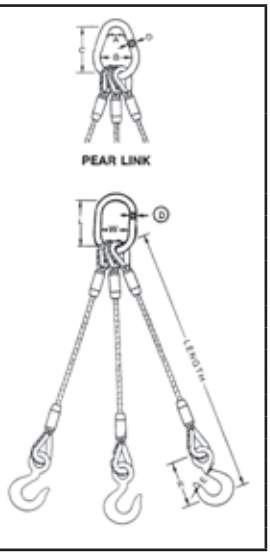
**Note:** *Reduction in rated capacity as legs spread to wider lifting connections.*

# THREE-LEG BRIDLE MECHANICALLY SPLICED SLINGS

**WARNING** | SEE WARNING INFORMATION ON PAGE 20.

All wire rope diameters in inches.
All capacities in tons of 2,000 lbs.
All eye and fitting dimensions in inches.

| Rope Diameter 6 x 19 IWRC 6 x 36 IWRC | Min. Sling Length When Using Std. Eyes | Rated Capacity Tons * | | | Alloy Oblong Link | | | Hook | | | Carbon Pear Link | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 60° | 45° | 30° | D | L | W | WLL ** | E | R | D | A | B | C |
| 1/4 | 1' 3" | 1.7 | 1.4 | .97 | 1/2 | 5 | 2-1/2 | 3/4 | 15/16 | 4.42 | 1/2 | 5 | 2-1/2 | 2-1/2 |
| 5/16 | 1' 6" | 2.6 | 2.1 | 1.5 | 1/2 | 5 | 2-1/2 | 1 | 1-1/32 | 4.42 | 5/8 | 6 | 3 | 3 |
| 3/8 | 1' 8" | 3.7 | 3 | 2.2 | 5/8 | 6 | 3 | 1-1/2 | 1-1/16 | 5.64 | 3/4 | 5-1/2 | 2-3/4 | 2-3/4 |
| 7/16 | 1' 10" | 5 | 4.1 | 2.9 | 3/4 | 5.5 | 2.75 | 2 | 1-7/32 | 5.64 | 7/8 | 6 | 3 | 3 |
| 1/2 | 2' 0" | 6.6 | 5.4 | 3.8 | 7/8 | 5.5 | 2.75 | 3 | 1-1/2 | 6.39 | 3/4 | 5-1/2 | 2-3/4 | 2-3/4 |
| 9/16 | 2' 2" | 8.3 | 6.8 | 4.8 | 1 | 7 | 3.5 | 3 | 1-1/2 | 6.39 | 1 | 8 | 4 | 4 |
| 5/8 | 2' 4" | 10 | 8.3 | 5.9 | 1 | 7 | 3.5 | 5 | 1-7/8 | 7.90 | 1 | 8 | 4 | 4 |
| 3/4 | 2' 9" | 15 | 12 | 8.4 | 1-1/4 | 8.75 | 4.38 | 5 | 1-7/8 | 7.90 | – | – | – | – |
| 7/8 | 3' 3" | 20 | 16 | 11 | 1-1/2 | 10.5 | 5-1/2 | 7-1/2 | 2-1/4 | 10.09 | – | – | – | – |
| 1 | 3' 6" | 26 | 21 | 15 | 1-1/2 | 10.5 | 5-1/2 | 11 | 2-1/2 | 12.43 | – | – | – | – |
| 1-1/8 | 4' 0" | 31 | 26 | 18 | 1-3/4 | 12 | 6 | 11 | 2-1/2 | 12.43 | – | – | – | – |
| 1-1/4 | 4' 6" | 38 | 31 | 22 | 2 | 14 | 7 | 15 | 3-3/8 | 13.94 | – | – | – | – |
| 1-3/8 | 5' 0" | 46 | 38 | 27 | 2-1/4 | 16 | 8 | 15 | 3-3/8 | 13.94 | – | – | – | – |
| 1-1/2 | 5' 6" | 55 | 45 | 32 | 2-1/4 | 16 | 8 | AH-22 | 3-3/8 | 13.94 | – | – | – | – |
| 1-5/8 | 8' | 63 | 52 | 37 | 3-1/4 | 10 | 20 | AH-30 | 4 | 14-1/6 | – | – | – | – |
| 1-3/4 | 9' | 74 | 60 | 42 | 3-1/4 | 10 | 20 | AH-37 | 4-1/4 | 18-5/16 | – | – | – | – |

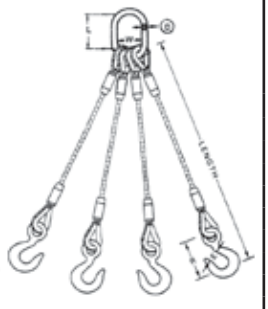



# FOUR-LEG BRIDLE MECHANICALLY SPLICED SLINGS

**WARNING** | SEE WARNING INFORMATION ON PAGE 20.

All wire rope diameters in inches.
All capacities in tons of 2,000 lbs.
All eye and fitting dimensions in inches.

| Rope Diameter 6 x 19 IWRC 6 x 36 IWRC | Min. Sling Length When Using Std. Eyes | Rated Capacity Tons * | | | Alloy Oblong Link | | | Hook | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 60° | 45° | 30° | D | L | W | WLL ** | E | R |
| 1/4 | 1' 3" | 2.2 | 1.8 | 1.3 | 1/2 | 5 | 2-1/2 | 3/4 | .90 | 4.42 |
| 5/16 | 1' 6" | 3.5 | 2.8 | 2 | 5/8 | 6 | 3 | 1 | .90 | 4.42 |
| 3/8 | 1' 8" | 5 | 4.1 | 2.9 | 7/8 | 7.5 | 3.75 | 1-1/2 | .93 | 5.64 |
| 7/16 | 1' 10" | 6.7 | 5.5 | 3.9 | 7/8 | 7.5 | 3.75 | 2 | 1 | 5.64 |
| 1/2 | 2' 0" | 8.8 | 7.1 | 5.1 | 1 | 7 | 3.56 | 3 | 1.13 | 6.39 |
| 9/16 | 2' 2" | 11 | 9 | 6.4 | 1-1/4 | 8-3/4 | 4.38 | 3 | 1.13 | 6.39 |
| 5/8 | 2' 4" | 14 | 11 | 7.8 | 1-1/4 | 8-3/4 | 4.38 | 5 | 1.47 | 7.90 |
| 3/4 | 2' 9" | 19 | 16 | 11 | 1-1/2 | 11-1/2 | 5.25 | 5 | 1.47 | 7.90 |
| 7/8 | 3' 3" | 26 | 21 | 15 | 1-3/4 | 12 | 6 | 7 | 1.75 | 10.09 |
| 1 | 3' 6" | 34 | 28 | 20 | 2 | 14 | 7 | 11 | 2.29 | 12.43 |
| 1-1/8 | 4' 0" | 42 | 34 | 24 | 2-1/2 | 16 | 8 | 11 | 2.29 | 12.43 |
| 1-1/4 | 4' 6" | 51 | 42 | 30 | 3 | 18 | 9 | 15 | 2.50 | 13.94 |




* Rated Capacities Basket Hitch based on D/d ratio of 25.
** Working Load Limit.
Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.
Sling angles less than 30° shall not be used.

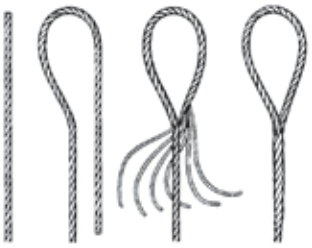
Sling angles in this catalog depart from the traditional method of vertical angles measured at the sling hook. It has long been the opinion of sling users that it is easier to measure a sling angle relative to the ground or horizontal. The method is the same whichever angle is used. When the horizontal angle is used you, must use the trigonometric cosine of the vertical angle.

# SINGLE-PART BODY HAND SPLICE

The end of a single wire rope is bent back along the rope to form the eye, and strands are hand-tucked into the body of the rope in what is called a burnt end splice. With Burnt End splices, the ends of strands are left exposed and cut off with a torch. Upon special request, a premium splice known as a tapered and concealed splice can be provided. Slings with rope bodies larger than 1" diameter are made only with Burnt End splices. All have the same rated capacity, size for size.

### Hand Spliced Eye

The tapered and concealed splice utilizes tension in the rope body to secure strands where they are tucked back into the rope. Needs no metal sleeve to assure firm anchoring. When "tapered" and "concealed", ends of strands are tucked inward and concealed inside the rope.



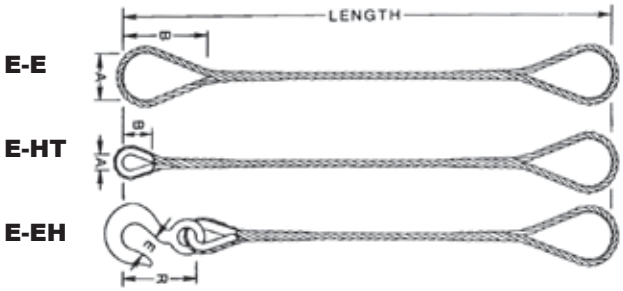
**⚠ WARNING**

**Hand-spliced slings should not be used in lifts where the sling may rotate and cause the wire rope to unlay.**

**⚠ WARNING** | SEE WARNING INFORMATION ON PAGE 20.

**Tapered & Concealed**

**Burnt End**




All capacities in tons of 2,000 lbs.
All eye and fitting dimensions in inches.

| | Rope Diameter (inches) | Min. Sling Length When Using Std. Eyes | Rated Capacity—Tons * | | | | | | Eye Dimensions | | Thimble | | Hook | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Vertical | *** Choker Hitch | Basket Hitch | | | | A | B | A | B | ** WLL | E | R |
| | | | | | | 60 | 45 | 30 | | | | | | | |
| 6 x 19 FC | 1/4 | 2' 0" | .54 | .42 | 1.1 | .94 | .77 | .42 | 2 | 4 | 7/8 | 1-5/8 | 3/4 | 15/16 | 3-7/32 |
| | 5/16 | 2' 3" | .83 | .66 | 1.7 | 1.4 | 1.2 | .66 | 2-1/2 | 5 | 1-1/16 | 1-7/8 | 1 | 1-3/32 | 3-21/32 |
| | 3/8 | 2' 6" | 1.2 | .94 | 2.4 | 2 | 1.7 | .94 | 3 | 6 | 1-1/8 | 2-1/8 | 1-1/2 | 1-1/16 | 4-3/32 |
| | 7/16 | 2' 9" | 1.6 | 1.3 | 3.2 | 2.7 | 2.2 | 1.3 | 3-1/2 | 7 | 1-1/4 | 2-1/4 | 1-1/2 | 1-1/16 | 4-3/32 |
| | 1/2 | 3' 0" | 2 | 1.6 | 4 | 3.5 | 2.9 | 1.6 | 4 | 8 | 1-1/2 | 2-3/4 | 2 | 1-7/32 | 4-11/16 |
| | 9/16 | 3' 6" | 2.5 | 2.1 | 5 | 4.4 | 3.6 | 2.1 | 4-1/2 | 9 | 1-1/2 | 2-3/4 | 3 | 1-1/2 | 5-3/4 |
| | 5/8 | 4' 0" | 3.1 | 2.6 | 6.2 | 5.3 | 4.4 | 2.6 | 5 | 10 | 1-3/4 | 3-1/4 | 3 | 1-1/2 | 5-3/4 |
| | 3/4 | 4' 6" | 4.3 | 3.7 | 8.6 | 7.4 | 6.1 | 3.7 | 6 | 12 | 2 | 3-3/4 | 5 | 1-7/8 | 7-3/8 |
| 6 x 36 FC | 7/8 | 5' 6" | 5.7 | 5 | 11 | 9.8 | 8 | 5 | 6-1/2 | 13 | 2-1/4 | 4-1/4 | 7-1/2 | 2-1/4 | 9-1/16 |
| | 1 | 6' 0" | 7.4 | 6.4 | 15 | 13 | 10 | 6.4 | 7 | 14 | 2-1/2 | 4-1/2 | 7-1/2 | 2-1/4 | 9-1/16 |
| | 1-1/8 | 6" 6" | 9.3 | 8.1 | 19 | 16 | 13 | 8.1 | 7-1/2 | 15 | 2-7/8 | 5-1/8 | 10 | 2-1/2 | 10-1/16 |
| | 1-1/4 | 7' 9" | 11 | 9.9 | 23 | 20 | 16 | 9.9 | 8 | 16 | 2-7/8 | 5-1/8 | 10 | 2-1/2 | 10-1/16 |
| | 1-3/8 | 9' 0" | 14 | 12 | 27 | 24 | 19 | 12 | 8-1/2 | 17 | 3-1/2 | 6-1/4 | 15 | 3-3/8 | 12-1/2 |
| | 1-1/2 | 10' 0" | 16 | 14 | 32 | 28 | 23 | 14 | 9 | 18 | 3-1/2 | 6-1/4 | 15 | 3-3/8 | 12-1/2 |

* Rated Capacities Basket Hitch based on D/d Ratio of 15.
Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.
Rated Capacities based on design factor of 5.
Sling angles of less than 30 degrees shall not be used.

** Working Load limit.
*** See Choker Hitch Rated Capacity Adjustment.

# MAZZELLA MULTI-PART WIRE ROPE SLINGS — FLEXIBLE, EASE OF USE, AND IN STOCK

## Typical Applications of Multi-Part Slings

**Following are some useful guidelines for selection of multi-part slings for large lifts:**

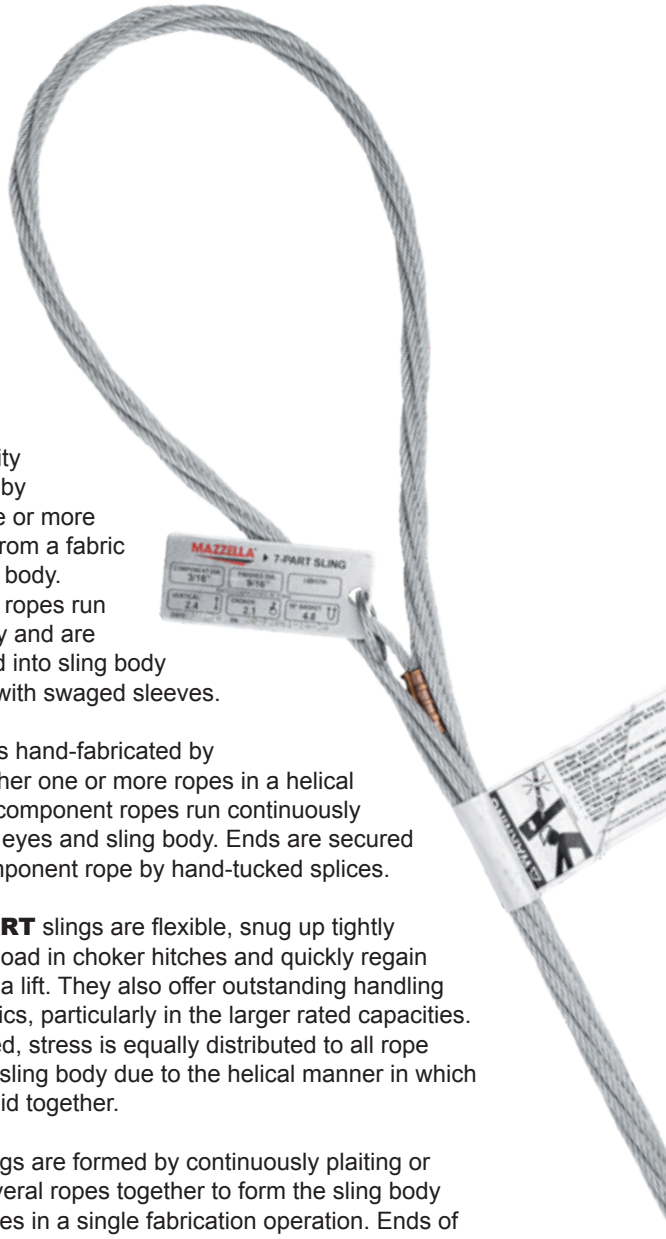
1. **When sling body D/d Ratio is less than 10.**
   Because of its construction, a 7- or 9-part helically laid sling may bend against a load in an arc 10 times the component rope diameter, rather than 20 times the sling body diameter. Thus, greater bending capability can be obtained than with a single-part sling body with comparable rated capacity.

2. **When extreme flexibility is required.**
   Select a multi-part sling when the sling body must snug up tight to grip the load or when easy handling of the sling is desirable—for attachment to the load or for storage. A multi-part will be far more flexible than a single-part body of the same rated lifting capacity.

3. **Where the sling can damage the load.**
   Multi-part slings conform to the load surface, spreading the applied force over wider area than single-part constructions—therefore, are less likely to cut into or distort hollow vessels and tanks. However, it is always wise to protect such loads with blocking, planks, etc.—which protect the sling, as well as the load.

4. **Where kinking is a problem.**
   Large capacity single-part slings will sometimes "take a set" that impairs internal adjustment within the rope, thereby reducing future usefulness. Under such conditions, it is a sound practice to use a multi-part body. Similarly, if there is a tendency for kinks to form during handling of the sling, multi-part bodies will be greatly appreciated by the rigger.

**SLING ANGLES** in this catalog depart from the traditional method of vertical angles measured at the sling hook. It has long been the opinion of sling users that it is easier to measure a sling angle relative to the ground or horizontal. The method is the same whichever angle is used. When the horizontal angle is used, you must use the trigonometric side of the horizontal angle. When the vertical angle is used, you must use the trigonometric cosine of the vertical angle.




High flexibility is achieved by braiding one or more wire ropes from a fabric for the sling body. Component ropes run continuously and are hand-tucked into sling body or secured with swaged sleeves.

Each sling is hand-fabricated by laying together one or more ropes in a helical manner so component ropes run continuously through the eyes and sling body. Ends are secured into the component rope by hand-tucked splices.

**MULTI-PART** slings are flexible, snug up tightly around the load in choker hitches and quickly regain shape after a lift. They also offer outstanding handling characteristics, particularly in the larger rated capacities. When loaded, stress is equally distributed to all rope parts in the sling body due to the helical manner in which ropes are laid together.

Braided slings are formed by continuously plaiting or braiding several ropes together to form the sling body and both eyes in a single fabrication operation. Ends of individual ropes are usually hand-tucked and spliced into component ropes of the body. Eyes are often seized or wrapped since eyes are not braided.

Braided slings are often selected where loads must be rolled or maneuvered, since the design creates friction to grip loads and resist rotation.

# THE MAZZELLA 7-PART™ WIRE ROPE SLING

## An Ergonomic Wire Rope Sling

Our customers tell us the Mazzella 7-Part™ Sling is their sling of choice. For more than 50 years, Mazzella has constructed this sling from one continuous piece of wire rope.

This sling is ultra-flexible and user friendly. It has been redesigned for higher capacities.

**The Mazzella 7-Part™ Sling:**

- **Saves money—**stays manageable longer
- **Saves time—**easiest wire rope sling in the world to rig
- **Saves resources—**easier to handle
- **Improves inspection—**the end user is able to inspect the uncovered eyes
- **Quick-ship—**popular sizes available from stock

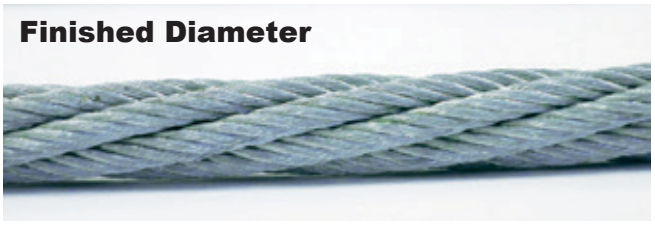
The small diameter slings are galvanized for clean handling, and are a favorite for the maintenance department. For your large lifts, the Mazzella 7-Part™ Sling is a more manageable sling at a cost savings vs. standard wire rope slings.


# THE MAZZELLA 7-PART™ WIRE ROPE SLING (CONTINUED)

## IWRC EIP Flemish Mechanical Spliced (6 x 19 & 6 x 36 Class)

**WARNING** | SEE WARNING INFORMATION ON PAGE 20.

| Rated Capacity in Tons (2,000 lbs.) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Component Rope Diameter (in.) | Approximate Finished Sling Diameter (in.) | Vertical Capacity | Choker Capacity | Basket Hitch ** | | | | Standard Eye Dimension (in.) | |
| | | | | Vertical | 60° | 45° | 30° | Width | Length |
| * 1/8 | 3/8 | 1.2 | 1 | 2.4 | 2 | 1.6 | 1.2 | 3 | 6 |
| * 3/16 | 9/16 | 2.4 | 2.1 | 4.8 | 4.2 | 3.4 | 2.4 | 4 | 8 |
| * 1/4 | 3/4 | 4 | 3.5 | 8 | 6.9 | 5.7 | 4 | 5 | 10 |
| * 5/16 | 1 | 5.6 | 4.9 | 11.2 | 9.7 | 8 | 5.6 | 6 | 12 |
| 3/8 | 1-1/8 | 8.7 | 7.6 | 17.4 | 15 | 12.3 | 8.7 | 7-1/2 | 15 |
| 7/16 | 1-5/16 | 11.7 | 10.3 | 23.4 | 20.3 | 16.5 | 11.7 | 9 | 18 |
| 1/2 | 1-1/2 | 15.3 | 13.4 | 30.6 | 26.5 | 21.6 | 15.3 | 10 | 20 |
| 9/16 | 1-3/4 | 19.3 | 16.9 | 38.6 | 33.4 | 27.3 | 19.3 | 12 | 24 |
| 5/8 | 1-7/8 | 23.7 | 20.7 | 47.4 | 41 | 33.5 | 23.7 | 12 | 24 |
| 3/4 | 2-1/4 | 33.8 | 29.5 | 67.5 | 58.5 | 47.7 | 33.8 | 15 | 30 |
| 7/8 | 2-5/8 | 45.7 | 40 | 91.4 | 79.2 | 64.6 | 45.7 | 17 | 34 |
| 1 | 3 | 59.4 | 52 | 118.7 | 102.8 | 83.9 | 59.4 | 20 | 40 |
| 1-1/8 | 3-3/8 | 75 | 65 | 149 | 129 | 105 | 75 | 22 | 44 |
| 1-1/4 | 3-3/4 | 92 | 80 | 184 | 159 | 130 | 92 | 25 | 50 |
| 1-3/8 | 4-1/8 | 110 | 96 | 220 | 190 | 156 | 110 | 27 | 54 |
| 1-1/2 | 4-1/2 | 131 | 115 | 262 | 227 | 185 | 131 | 30 | 60 |
| 1-3/4 | 5-1/4 | 176 | 154 | 351 | 304 | 248 | 176 | 35 | 70 |
| 2 | 6 | 227 | 199 | 455 | 394 | 321 | 227 | 40 | 80 |
| 2-1/4 | 6-3/4 | 284 | 248 | 567 | 491 | 401 | 284 | 45 | 90 |
| 2-1/2 | 7-1/2 | 347 | 303 | 693 | 600 | 490 | 347 | 50 | 100 |
| 2-3/4 | 8-1/4 | 414 | 363 | 828 | 717 | 585 | 414 | 55 | 110 |


Rated capacities based on pin diameter no larger than the natural eye width or no less than 5 times the component rope diameter.

Rated capacity basket hitch based on D/d ratio in the body of 10 times the component rope diameter.

Rated capacities based on design factor of 5 when new.

Horizontal sling angles less than 30° degrees shall not be used.

* Sling capacities for rope diameters 1/8" through 5/16" are based on using 7 x 19 G.A.C. wire rope.

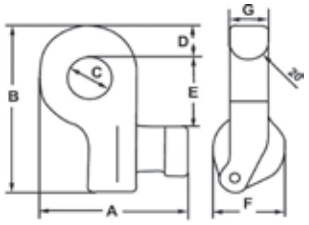
** Sling Angles in this catalog depart from the traditional method of vertical angles measured at the sling hook. It has long been the opinion of sling users that it is easier to measure a sling angle relative to the ground or horizontal. The method is the same whichever angle is used. When the horizontal angle is used you must use the trigonometric side of the horizontal angle. When the vertical angle is used you must use the trigonometric cosine of the vertical angle.

# CLT CONTAINER LIFTING LUGS

Supplied in sets of 4, CLT Lifting Lugs serve as flexible lashing points for transporting containers from the top.

### Product Features:

- Mounted vertically at the top of the container
- Easy installation and removal - simply insert and turn to install
- Designed to eliminate the dangerous use of standard hooks
- Lugs lock into place by simply turning the lug 90°. This configuration allows for transportation via the use of a lifting frame in conjunction with cables, chains or slings
- Design factor 4:1



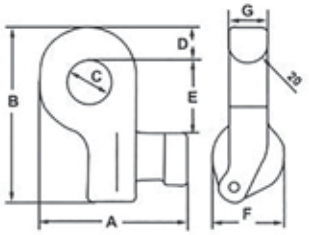

| Product Code | Working Load Limit at 90° (lbs. per set of 4) | Dimensions in Inches | | | | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | |
| CLT56 | 123,480 | 4.84 | 8.54 | 1.77 | 1.54 | 2.24 | 3.98 | 4.76 | 61.7 |

# CLB CONTAINER LIFTING LUGS

Supplied in sets of 4, CLB Lifting Lugs serve as flexible lashing points for transporting containers from the sides.

### Product Features:

- Spring-loaded bolt to prevent accidental release
- Mounted horizontally at the side of the container in either upper or lower holes
- Easy installation and removal - simply insert and turn to install
- Designed to eliminate the dangerous use of standard hooks
- Lugs cannot drop out when slings become slack
- The set of (4) lugs has (2) right hand and (2) left hand units
- For maximum capacity, use a lifting beam in conjunction with CLB lifting lugs
- Design factor 4:1

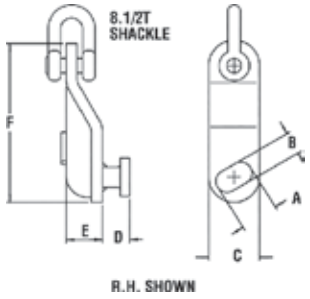



| Product Code | Working Load Limit at 90° (lbs. per set of 4) | Dimensions in Inches | | | | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | |
| CLB40 | 88,100 | 5.984 | 7.126 | 1.772 | 1.457 | 2.874 | 2.953 | 1.575 | 39.7 |

# "CORKY" CONTAINER LIFTING LUG

### Product Features:

- An efficient way to lift containers from bottom lifting slot
- Handle indicator shows lug is engaged for lift
- Complies to use with ASME B30.9 sling capacities
- OPTION S - 8 1/2 ton shackle




| Model Number | Rated Capacity Each (tons) | Dimensions in Inches | | | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | |
| LL | 8-1/2 | 3 | 1-3/4 | 4 | 2 | 2-7/8 | 2-7/8 | 17 |
| LL | 8-1/2 | 3 | 1-3/4 | 4 | 2 | 2-7/8 | 2-7/8 | 17 |

*NOTE: Specify complete set of 4 (2R & 2L) or individual pieces by L (left) or R (right).*

## WIRE ROPE TECHNICAL BOARD WARNING

**⚠ WARNING**

**Wire Rope WILL FAIL if worn-out, overloaded, misused, damaged, improperly maintained or abused.**

**Wire Rope failure may cause serious injury or death!**

**Protect yourself and others:**

- **ALWAYS INSPECT wire rope for WEAR, DAMAGE or ABUSE BEFORE USE.**
- **NEVER USE wire rope that is WORN-OUT, DAMAGED or ABUSED.**
- **NEVER OVERLOAD a wire rope.**
- **INFORM YOURSELF: Read and understand manufacturer's literature or "Wire Rope and Wire Rope Sling Safety Bulletin".***
- **REFER TO APPLICABLE CODES, STANDARDS and REGULATIONS for INSPECTION REQUIREMENTS and REMOVAL CRITERIA.***

*** For additional information or the BULLETIN, ask your employer or wire rope supplier.**



**Form No. 193**

**For <u>complete</u> warning and application information, see Wire Rope Technical Board at www.wireropetechnicalboard.org**

# NYLON & POLYESTER * SLINGS: HEAVY-DUTY WEBBING FLAT EYE, TWISTED EYE, AND ENDLESS

**WARNING** | SEE WARNING INFORMATION ON PAGE 26.

We offer a complete product line catering to the lifting industry including many innovations like Edge Guard sling web (see next page). Edge Guard product offers superior cut resistance and abrasion resistance properties to extend the life of your sling. Edge Guard is available for an additional cost.

## Flat Eye (Type 3) or Twisted Eye (Type 4)


| Flat Eye or Twisted Eye | Rated Capacities (lbs.) | | |
|---|---|---|---|
| | Vertical | Choker | Basket |
| EE1-801 | 1,600 | 1,250 | 3,200 |
| EE1-802 | 3,200 | 2,560 | 6,400 |
| EE1-803 | 4,800 | 3,840 | 9,600 |
| EE1-804 | 6,400 | 5,120 | 12,800 |
| EE1-806 | 9,600 | 7,680 | 19,200 |
| EE1-808 | 12,800 | 10,240 | 25,600 |
| EE1-810 | 16,000 | 12,800 | 32,000 |
| EE1-812 | 19,200 | 15,360 | 38,400 |
| EE2-801 | 3,200 | 2,560 | 6,400 |
| EE2-802 | 6,400 | 5,120 | 12,800 |
| EE2-803 | 9,300 | 7,440 | 18,600 |
| EE2-804 | 11,500 | 9,200 | 23,000 |
| EE2-806 | 16,500 | 13,200 | 33,000 |
| EE2-808 | 22,750 | 18,200 | 44,500 |
| EE2-810 | 28,400 | 22,720 | 56,800 |
| EE2-812 | 34,100 | 27,280 | 68,200 |
| EE3-801 | 4,100 | 3,280 | 8,200 |
| EE3-802 | 8,300 | 6,640 | 16,600 |
| EE3-803 | 12,500 | 10,000 | 25,000 |
| EE3-804 | 16,000 | 12,800 | 32,000 |
| EE3-806 | 23,000 | 18,400 | 46,000 |
| EE3-808 | 30,700 | 24,560 | 61,400 |
| EE3-810 | 36,800 | 29,440 | 73,600 |
| EE3-812 | 44,000 | 35,200 | 88,000 |
| EE4-801 | 6,200 | 4,960 | 12,400 |
| EE4-802 | 12,400 | 9,920 | 24,800 |
| EE4-803 | 17,000 | 13,600 | 34,000 |
| EE4-804 | 22,000 | 17,600 | 44,000 |
| EE4-806 | 33,000 | 26,400 | 66,000 |
| EE4-808 | 44,000 | 35,200 | 88,000 |
| EE4-810 | 55,000 | 44,000 | 110,000 |
| EE4-812 | 66,000 | 52,800 | 132,000 |

## Endless

| Endless | Rated Capacities (lbs.) | | |
|---|---|---|---|
| | Vertical | Choker | Basket |
| EN1-801 | 3,200 | 2,500 | 6,400 |
| EN1-802 | 6,400 | 5,000 | 12,800 |
| EN1-803 | 8,600 | 6,900 | 17,200 |
| EN1-804 | 11,500 | 9,200 | 23,000 |
| EN1-806 | 16,300 | 13,000 | 32,600 |
| EN1-808 | 19,200 | 15,400 | 38,400 |
| EN1-810 | 22,400 | 17,900 | 44,800 |
| EN1-812 | 26,900 | 21,500 | 53,800 |
| EN2-801 | 6,200 | 4,900 | 12,400 |
| EN2-802 | 12,200 | 9,800 | 24,400 |
| EN2-803 | 16,300 | 13,000 | 32,600 |
| EN2-804 | 20,700 | 16,500 | 41,400 |
| EN2-806 | 28,600 | 23,000 | 57,200 |
| EN2-808 | 30,700 | 24,500 | 61,400 |
| EN2-810 | 33,600 | 26,800 | 67,200 |
| EN2-812 | 37,600 | 30,000 | 75,200 |
| EN3-801 | 8,000 | 6,400 | 16,000 |
| EN3-802 | 16,000 | 12,800 | 32,000 |
| EN3-803 | 21,500 | 17,200 | 43,000 |
| EN3-804 | 28,700 | 23,000 | 57,400 |
| EN3-806 | 40,700 | 32,500 | 81,400 |
| EN3-808 | 46,000 | 36,800 | 92,000 |
| EN3-810 | 51,500 | 41,200 | 103,000 |
| EN3-812 | 59,200 | 47,300 | 118,400 |
| EN4-801 | 10,000 | 8,000 | 20,000 |
| EN4-802 | 19,800 | 15,800 | 39,600 |
| EN4-803 | 26,700 | 21,300 | 53,400 |
| EN4-804 | 35,600 | 28,400 | 71,200 |
| EN4-806 | 50,500 | 40,400 | 101,000 |
| EN4-808 | 57,600 | 46,000 | 115,200 |
| EN4-810 | 67,200 | 53,700 | 134,400 |
| EN4-812 | 80,700 | 64,500 | 161,400 |

**Tapering:** Flat, Twisted Eye and Endless Slings are tapered at 3" and wider unless specified differently when ordering.
**Treatment:** Unless requested, all slings will have an abrasion resistant treatment applied. Polyester slings are without this treatment.

* **Please Note:** *Polyester webbing is not available over 10" wide.*

# EDGE GUARD WEB SLINGS

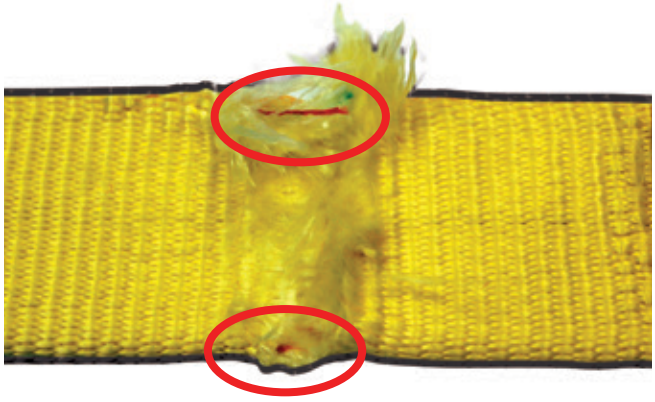
## EEI—803 EG x 3' Edge Guard Sling
## 1 Ply 3" Wide x 3' Long / Twist Eye #4

- For added abrasion edge protection.
- Available in capacities up to 4", 4 ply.
- Edge Guard slings are available in:
  - Flat eye (Type 3) EE
  - Twisted eye (Type 4) EE
  - Endless EN
  - TT1 and TT2
  - Reverse Eye (RE)
- **Note:** Indicate "EG" when ordering Edge Guard slings

**Note:** ***Tapering—****Types 3 and 4 are tapered at 3" and wider unless otherwise specified.*

## Red Tracer Yarn Inspection Aid

All **standard** Mazzella nylon and polyester web slings have red warning yarns. Red core yarns may become exposed when the sling surface is cut or worn through the woven face yarns. This is one criteria, but not the only one for removal from service! This aids in the inspection process. Indicated in the below circles.



**WARNING** | SEE WARNING INFORMATION ON PAGE 26.

| Flat Eye or Twisted Eye | Rated Capacities (lbs.) | | |
|---|---|---|---|
| | Vertical | Choker | Basket |
| EE1-801 EG | 1,600 | 1,250 | 3,200 |
| EE1-802 EG | 3,200 | 2,500 | 6,400 |
| EE1-803 EG | 4,800 | 3,800 | 9,600 |
| EE1-804 EG | 6,400 | 5,000 | 12,800 |
| EE2-801 EG | 3,200 | 2,500 | 6,400 |
| EE2-802 EG | 6,400 | 5,000 | 12,800 |
| EE2-803 EG | 8,600 | 6,900 | 17,200 |
| EE2-804 EG | 11,500 | 9,200 | 23,000 |

| Endless | Rated Capacities (lbs.) | | |
|---|---|---|---|
| | Vertical | Choker | Basket |
| EN1-801 EG | 3,200 | 2,500 | 6,400 |
| EN1-802 EG | 6,400 | 5,000 | 12,800 |
| EN1-803 EG | 8,600 | 6,900 | 17,200 |
| EN1-804 EG | 11,500 | 9,200 | 23,000 |
| EN2-801 EG | 6,100 | 4,900 | 12,200 |
| EN2-802 EG | 12,200 | 9,800 | 24,400 |
| EN2-803 EG | 16,300 | 13,000 | 32,600 |
| EN2-804 EG | 20,700 | 16,500 | 41,400 |

| Type TC | Type TT * | Rated Capacities (lbs.) | | |
|---|---|---|---|---|
| | | Vertical | Choker | Basket |
| TC1-802 EG | TT1-802 EG | 3,200 | 2,400 | 6,400 |
| TC1-803 EG | TT1-803 EG | 4,800 | 3,600 | 9,600 |
| TC1-804 EG | TT1-804 EG | 6,400 | 4,800 | 12,800 |
| TC2-802 EG | TT2-802 EG | 6,400 | 4,800 | 12,800 |
| TC2-803 EG | TT2-803 EG | 8,600 | 6,500 | 17,200 |
| TC2-804 EG | TT2-804 EG | 11,500 | 8,600 | 23,000 |

| Sling Number | Rated Capacities (lbs.) | | | Sling Width (in.) | Sling Thickness (in.) | Eye Length (in.) |
|---|---|---|---|---|---|---|
| | Vertical | Choker | Basket | | | |
| RE1-802 EG | 4,500 | 3,600 | 9,000 | 2 | 5/16 | 9 |
| RE1-804 EG | 7,700 | 6,200 | 15,400 | 4 | 5/16 | 15 |

* TT cannot be used in a choker hitch.


# DURAKLEAR SLING TAG

**MAZZELLA DEVELOPED A SYNTHETIC WEB SLING TAG WHERE THE LETTERING WILL LAST THE LIFE OF THE SLING. THE TAG IS A CLEAR, DURABLE WEB SLING TAG CALLED DURAKLEAR™.**

**This tag will replace the current orange style tag. What makes this tag so great is that the printing is on the inside and the copy won't rub off.**

We have done extensive testing to prove the tag's durability and there will be no additional cost for this new style tag. We also have the ability to private label on larger orders or on a customer specific request. See photos for the different options that are currently available.

## BENEFITS:

- Lettering remains legible for life of sling
- Abrasion resistant
- Dirt, oil, and grease wipe off
- Ease of inspection under the tag
- Tag has UV inhibitors
- Custom logos available

## ASME B30.9 STATES...

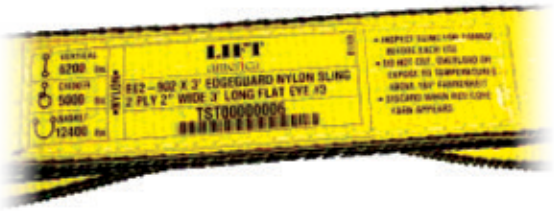
*"Sling identification shall be done by the sling manufacturer."*

*"Identification of the sling should be maintained by the user so as to be legible during the life of the sling."*

Tagging System duraKlear™

**duraKlear™ Tag**


**Private Label Tag ***




**Customer Specific Tag ***


« **DURAKLEAR™ TAG IS STILL LEGIBLE AFTER 10 MONTHS IN THE FIELD!**

**FOR ORDERS OR QUESTIONS, CALL 800-362-4601, OR GO TO: MAZZELLACOMPANIES.COM**

MAZZELLA®

# MAZZELLA SINGLE-PATH ROUNDSLINGS

**WARNING** | SEE WARNING INFORMATION ON PAGE 26.

**Mazzella Single-Path Roundslings** are made from a continuous loop of 100% polyester load bearing yarns. The yarns are covered by two polyester tubular jackets. The outer jacket is color-coded for quick visual capacity recognition. If the inner load bearing fibers are visible, remove the sling from service immediately and discard properly. Use the easy-to-read chart below for single-path capacities. For greater lifting capacities, see our Twin-Path® slings.

| Part No. | Color | Rated Capacity (lbs.) | | | | | Weight Lbs. / Ft. | Min. Length (ft.) |
|---|---|---|---|---|---|---|---|---|
| | | Vertical | Choker | Basket Hitches | | | | |
| | | | | 90° | 60° | 45° | | |
| SP30 | Purple | 2,650 | 2,120 | 5,300 | 4,500 | 3,676 | .2 | 3 |
| SP50 | Black | 4,000 | 3,200 | 8,000 | 6,900 | 5,600 | .25 | 3 |
| SP60 | Green | 5,300 | 4,240 | 10,600 | 9,180 | 7,494 | .3 | 3 |
| SP90 | Yellow | 8,400 | 6,720 | 16,800 | 14,550 | 11,877 | .4 | 3 |
| SP120 | Tan | 10,600 | 8,500 | 21,200 | 18,360 | 14,988 | .5 | 3 |
| SP150 | Red | 13,200 | 10,560 | 26,400 | 22,860 | 18,665 | .7 | 3 |
| SP180 | White | 16,800 | 13,440 | 33,600 | 29,100 | 23,755 | .8 | 6 |
| SP240 | Blue | 21,200 | 17,000 | 42,400 | 36,700 | 29,977 | 1.2 | 6 |
| SP360 | Gray | 31,700 | 25,300 | 63,400 | 54,900 | 44,800 | 2 | 6 |
| SP600 | Brown | 52,900 | 42,300 | 105,800 | 91,796 | 74,924 | 3 | 7 |
| SP800 | Olive | 66,100 | 52,880 | 132,600 | 114,312 | 93,324 | 4.5 | 7 |
| SP1000 | Black | 90,000 | 72,000 | 180,000 | 155,880 | 127,260 | 6 | 7 |

## SINGLE-PATH HIGH PERFORMANCE SLING WITH K-SPEC® CORE

**US Patent # 7,661,737 (Check-Fast)**

**Check-Fast™ Inspection System—now available in Polyester or K-Spec® Single-Path Roundslings.**
The Check-Fast® System is designed to improve job-site safety. The Check-Fast® Tag and External Warning Indicator (EWI) on a roundsling product provide for a pass / fail inspection of the internal load bearing core yarn. Damage to the core yarn from fiber on fiber abrasion, fatigue and severe overload can be detected. If the sling is mistakenly overloaded beyond rated capacity, the EWI is designed to disappear before the sling fails. The sling inspector now has a GO / NO-GO inspection device rather than relying on a subjective hand-over-hand inspection to make an educated guess if the load bearing core yarns are in good condition. This safety system is available for polyester or High Performance K-Spec® Fiber Roundslings fabricated by authorized SLINGMAX® Dealers.

| Part No. | Rated Capacity (lbs.) | | | | | Weight Lbs. / Ft. | Nom. Body Width (in.) |
|---|---|---|---|---|---|---|---|
| | Vertical | Choker | Basket Hitches | | | | |
| | | | 90° | 60° | 45° | | |
| SPXCF 500 | 5,000 | 4,000 | 10,000 | 8,660 | 7,070 | .34 | 2.5 |
| SPXCF 1000 | 10,000 | 8,000 | 20,000 | 17,320 | 14,140 | .39 | 2.5 |
| SPXCF 1500 | 15,000 | 12,000 | 30,000 | 25,090 | 21,210 | .44 | 2.5 |
| SPXCF 2000 | 20,000 | 16,000 | 40,000 | 34,640 | 29,280 | .52 | 2.5 |
| SPXCF 2500 | 25,000 | 20,000 | 50,000 | 43,300 | 35,350 | .59 | 3 |
| SPXCF 3000 | 30,000 | 24,000 | 60,000 | 51,060 | 42,420 | .65 | 3 |
| SPXCF 4000 | 40,000 | 32,000 | 80,000 | 69,280 | 56,560 | .85 | 3 |
| SPXCF 5000 | 50,000 | 40,000 | 100,000 | 86,600 | 70,700 | .98 | 4 |
| SPXCF 6000 | 60,000 | 48,000 | 120,000 | 103,920 | 84,840 | 1.11 | 4 |
| SPXCF 7000 | 70,000 | 56,000 | 140,000 | 121,240 | 98,980 | 1.24 | 4 |
| SPXCF 8500 | 85,000 | 68,000 | 170,000 | 147,220 | 120,190 | 1.63 | 5 |
| SPXCF 10000 | 100,000 | 80,000 | 200,000 | 173,200 | 141,400 | 1.91 | 5 |


The Check-Fast™ System is an independent sacrificial element in the roundsling and is not a part of the actual load bearing structure of the sling. If the Check-Fast™ System indicates internal damage, it does so without further weakening of the bearing core.

# DURA-JACKET ROUNDSLINGS WITH SUPERTECHLON™ COVER

The Dura-Jacket Roundsling with SuperTechlon™ Cover is a versatile and high-performance round sling that offers the user a patented abrasion and cut resistant jacket and unique identifying markers for greater ease of use.

## Features:

- Patented abrasion and cut resistant jacket
- Color coded
- Stripe coded: each stripe equals 3000 lbs. of vertical lifting capacity
- Print coded: Vertical lifting capacity printed in lbs. on jacket

| SuperTechlon™ Roundsling Specifications | | |
|---|---|---|
| Part No. | Color | Vertical Capacity |
| ST-ENR-3000 | Purple | 3,000 lbs. |
| ST-ENR-6000 | Green | 6,000 lbs. |
| ST-ENR-9000 | Yellow | 9,000 lbs. |
| ST-ENR-12000 | Tan | 12,000 lbs. |
| ST-ENR-15000 | Red | 15,000 lbs. |
| ST-ENR-18000 | White | 18,000 lbs. |
| ST-ENR-24000 | Blue | 24,000 lbs. |
| ST-ENR-30000 | Orange | 30,000 lbs. |
| ST-ENR-40000 | Orange | 40,000 lbs. |

**Note:** *Dura-Jacket Round Slings are manufactured by an international supplier for Mazzella.*

**WARNING** | SEE WARNING INFORMATION ON PAGE 26.


## SYNTHETIC WEB SLINGS AND BRIDLES WARNINGS

**⚠ WARNING**

- Inspect sling for damage before each use.
- Do not cut, overload or expose to temperatures above 194° Fahrenheit.
- Discard when red core yarn appears.

⚠ For **complete** warning and application information, see Web Sling & Tie Down Association at www.wstda.com

## SYNTHETIC ROUNDSLINGS WARNINGS

**⚠ WARNING**

- Do not exceed rated capacities.
- Sling angles are measured relative to horizontal angles.
- Single-Path slings can be cut by contact with unprotected load edges, padding must be used to protect the slings.

⚠ For **complete** warning and application information, see Web Sling & Tie Down Association at www.wstda.com

## TWIN-PATH® EXTRA SLING WITH COVERMAX® AND K-SPEC® CORE YARN WARNINGS


**⚠ WARNING**

Can fail if damaged, misused or overloaded. Inspect before use. Use only if trained. Observe rated capacity. Avoid edges and exposure to acid, alkali, sunlight and temperatures over 180° F. Death or injury can occur from improper use or maintenance.

⚠ For **complete** warning and application information, see Slingmax Rigging Solutions at www.slingmax.com

MAZZELLA®

# GRADE 100 CHAIN SLINGS AND COMPONENTS

**WARNING** | SEE WARNING INFORMATION ON PAGE 28.

Crosby®

## Working Load Limit— 4 to 1 Design Factor

| Chain Size | | Working Load Limit (lbs.) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 90° | 60° | 45° | 30° | 60° | 45° | 30° |
| in. | mm | Single Leg | Double Leg | | | Triple & Quad Leg | | |
| – | 6 | 3,200 | 5,500 | 4,500 | 3,200 | 8,300 | 6,800 | 4,800 |
| 1/4 (9/32) | 7 | 4,300 | 7,400 | 6,100 | 4,300 | 11,200 | 9,100 | 6,400 |
| 5/16 | 8 | 5,700 | 9,900 | 8,100 | 5,700 | 14,800 | 12,100 | 8,500 |
| 3/8 | 10 | 8,800 | 15,200 | 12,400 | 8,800 | 22,900 | 18,700 | 13,200 |
| 1/2 | 13 | 15,000 | 26,000 | 21,200 | 15,000 | 39,000 | 31,800 | 22,500 |
| 5/8 | 16 | 22,600 | 39,100 | 32,000 | 22,600 | 58,700 | 47,900 | 33,900 |
| 3/4 | 20 | 35,300 | 61,100 | 49,900 | 35,300 | 91,700 | 74,900 | 52,950 |
| 7/8 | 22 | 42,700 | 74,000 | 60,400 | 42,700 | 110,900 | 90,600 | 64,000 |
| 1 | 26 | 59,700 | 103,400 | 84,400 | 59,700 | 155,100 | 12,600 | 89,550 |
| 1-1/4 | 32 | 90,400 | 156,600 | 127,800 | 90,400 | 234,900 | 191,700 | 135,600 |

* For choker applications, the Working Load Limit must be reduced by 20%. The Crosby A-1338 cradle grab hook and S1311N chain shortner link do not require any reduction of the Working Load Limit. The design factor of 4 to 1 on Spectrum® 10 Alloy Chain agrees with the design factor used by the International Standards Organization (I.S.O.) and ANSI B30.9 and is the preferred set of Working Load Limit values to be used.

# CROSBY ALLOY STEEL CHAIN SLINGS WARNINGS

**⚠ WARNING**

- Loads may disengage from sling if proper rigging procedures and inspection are not followed.
- A falling load may cause serious injury or death.
- Inspect sling for damage before each use.
- Do not attempt to use sling above rated load and angle upon which it is based.
- Consult sling load chart for capacity reduction due to sling angle or type of hitch used.
- Read and understand these instructions before using sling.

For **complete** warning and application information, see The Crosby Group at www.thecrosbygroup.com








MAZZELLA

LIFTING & RIGGING
INSPECTION FREQUENCIES
& RECORDS GUIDE

| PRODUCT TYPE | STANDARD | FREQUENCY OF PERIODIC INSPECTION | INSPECTION RECORDS REQUIRED |
|---|---|---|---|
| Lever Hoists | ASME B30.21 | Normal Service - Yearly*<br>Heavy Service - Semiannually*<br>Severe Service - Quarterly*<br>Special Service - As recommended by qualified person | Yes* |
| Shackles | ASME B30.26 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | No |
| Adjustable Hardware | ASME B30.26 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | No |
| Compression Hardware | ASME B30.26 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | No |
| Links, Rings, Swivels | ASME B30.26 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | No |
| Rigging Blocks | ASME B30.26 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | No |
| Overhead Hoists (Underhung) Hand Chain-Operated Hoist, Electric-Powered Hoist, Air-Powered Hoist | ASME B30.16 | Frequent Inspection:<br>Normal Service - Monthly<br>Heavy Service - Weekly to Monthly<br>Severe Service - Daily<br>Periodic Inspection:<br>Normal Service - Yearly*<br>Heavy Service - Semiannually*<br>Severe Service - Quarterly* | Frequent Inspection: No<br>Periodic Inspection: Yes* |
| Alloy Chain Slings | ASME B30.9 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | Yes |
| Wire Rope Slings | ASME B30.9 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | Yes |
| Metal Mesh Slings | ASME B30.9 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | Yes |
| Synthetic Rope Slings | ASME B30.9 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | Yes |
| Synthetic Webbing Slings | ASME B30.9 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | Yes |
| Polyester Roundslings | ASME B30.9 | Normal Service - Yearly<br>Severe Service - Monthly to Quarterly<br>Special Service - As recommended by qualified person | Yes |
| Below-The-Hook Lifting Devices – Structural & Mechanical | ASME B30.20 | Normal Service - Yearly*<br>Heavy Service - Semiannually*<br>Severe Service - Quarterly*<br>Special Service - As recommended by qualified person | Yes* |
| Below-The-Hook Lifting Devices – Vacuum Lifting Devices | ASME B30.20 | Normal Service - Yearly*<br>Heavy Service - Semiannually*<br>Severe Service - Quarterly*<br>Special Service - As recommended by qualified person | Yes* |
| Below-The-Hook Lifting Devices – Close Proximity Operated Lifting Magnets | ASME B30.20 | Normal Service - Yearly<br>Heavy Service - Quarterly<br>Severe Service - Monthly<br>Special Service - As recommended by qualified person | Yes |
| Below-The-Hook Lifting Devices – Remotely Operated Lifting Magnets | ASME B30.20 | Normal Service - Yearly<br>Heavy Service - Quarterly<br>Severe Service - Monthly<br>Special Service - As recommended by qualified person | Yes |
| Below-The-Hook Lifting Devices – Scrap & Material Handling Grapples | ASME B30.20 | Normal Service - Yearly<br>Heavy Service - Quarterly<br>Severe Service - Monthly<br>Special Service - As recommended by qualified person | Yes |
| Hooks | ASME B30.10 | Frequent Inspection:<br>Normal Service - Monthly<br>Heavy Service - Weekly to Monthly<br>Severe Service - Daily to Weekly<br>Periodic Inspection:<br>Normal Service - Yearly<br>Heavy Service - Semiannually<br>Severe Service - Quarterly | Frequent Inspection: No<br>Periodic Inspection: Yes* |

* An external coded mark on the hook or shank is an acceptable identification in lieu of records. (A metal stamp mark shall not be made in a highly stressed area.)

Toll-Free: 800.362.4601 | mazzellacompanies.com



# HOW OFTEN DO YOU NEED TO INSPECT YOUR LIFTING & RIGGING GEAR?

MAZZELLA

CLICK OR SCAN THE CODE TO DOWNLOAD YOUR **LIFTING & RIGGING INSPECTION GUIDE!**

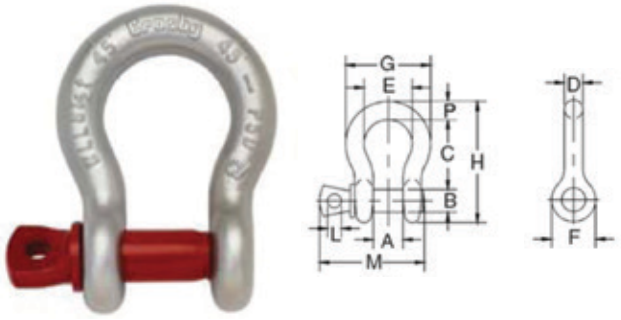
# G-209 / S-209 SCREW PIN ANCHOR SHACKLES

G-209 Screw pin anchor shackles meet the performance requirements of Federal Specification RR-C-271F Type IVA, Grade A, Class 2, except for those provisions required of the contractor.

- Capacities 1/3 thru 55 metric tons, grade 6.
- Forged - Quenched and Tempered, with alloy pins.
- Working Load Limit and grade “6” permanently shown on every shackle.
- Hot Dip galvanized or Self Colored.
- Fatigue rated.
- Shackles 25t and larger are RFID EQUIPPED.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds or other certification. Charges for proof testing and certification available when requested at the time of order.
- Approved for use at -40°C (-40°F) to 204°C (400°F).
- 2t through 25t bow and screw pin are Certified to meet charpy impact testing of 42 joules (31 ft.-lbs.) min. ave. at -20°C (-4°F).
- All shackles are Quenched and Tempered and can meet DNV impact requirements of 42 joules (31 ft.-lbs.) at -20°C (-4°F).
- Meets or exceeds all requirements of ASME B30.26.
- Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.

**WARNING** | SEE WARNING INFORMATION ON PAGE 33.

Crosby®




Load Rated Fatigue Rated "QT" QUIC-CHECK® MAXTOUGH® TA

- Crosby 2t through 25t G209 anchor shackles are type approved to DNV Certification Notes 2.7-1 - Offshore Containers. These Crosby shackles are statistical proof and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Look for the Red Pin®…the mark of genuine Crosby quality.

| Nominal Size | Working Load Limit | Stock No. | | Weight Each | Dimensions (in.) | | | | | | | | | | | Toler-ance +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| in. | t * | G-209 | S-209 | lbs. | A | B | C | D | E | F | G | H | L | M | P | C | A |
| 3/16 | 1/3 | 1018357 | – | .06 | .38 | .25 | .88 | .19 | .60 | .56 | .98 | 1.47 | .16 | 1.14 | .19 | .06 | .06 |
| 1/4 | 1/2 | 1018375 | 1018384 | .10 | .47 | .31 | 1.13 | .25 | .78 | .61 | 1.28 | 1.84 | .19 | 1.43 | .25 | .06 | .06 |
| 5/16 | 3/4 | 1018393 | 1018400 | .19 | .53 | .38 | 1.22 | .31 | .84 | .75 | 1.47 | 2.09 | .22 | 1.71 | .31 | .06 | .06 |
| 3/8 | 1 | 1018419 | 1018428 | .31 | .66 | .44 | 1.44 | .38 | 1.03 | .91 | 1.78 | 2.49 | .25 | 2.02 | .38 | .13 | .06 |
| 7/16 | 1-1/2 | 1018437 | 1018446 | .38 | .75 | .50 | 1.69 | .44 | 1.16 | 1.06 | 2.03 | 2.91 | .31 | 2.37 | .44 | .13 | .06 |
| 1/2 | 2 | 1018455 | 1018464 | .72 | .81 | .63 | 1.88 | .50 | 1.31 | 1.19 | 2.31 | 3.28 | .38 | 2.69 | .50 | .13 | .06 |
| 5/8 | 3-1/4 | 1018473 | 1018482 | 1.37 | 1.06 | .75 | 2.38 | .63 | 1.69 | 1.50 | 2.94 | 4.19 | .44 | 3.34 | .69 | .13 | .06 |
| 3/4 | 4-3/4 | 1018491 | 1018507 | 2.35 | 1.25 | .88 | 2.81 | .75 | 2.00 | 1.81 | 3.50 | 4.97 | .50 | 3.97 | .81 | .25 | .06 |
| 7/8 | 6-1/2 | 1018516 | 1018525 | 3.62 | 1.44 | 1.00 | 3.31 | .88 | 2.28 | 2.09 | 4.03 | 5.83 | .50 | 4.50 | .97 | .25 | .06 |
| 1 | 8-1/2 | 1018534 | 1018543 | 5.03 | 1.69 | 1.13 | 3.75 | 1.00 | 2.69 | 2.38 | 4.69 | 6.56 | .56 | 5.13 | 1.06 | .25 | .06 |
| 1-1/8 | 9-1/2 | 1018552 | 1018561 | 7.41 | 1.81 | 1.25 | 4.25 | 1.16 | 2.91 | 2.69 | 5.16 | 7.47 | .63 | 5.71 | 1.25 | .25 | .06 |
| 1-1/4 | 12 | 1018570 | 1018569 | 9.50 | 2.03 | 1.38 | 4.69 | 1.29 | 3.25 | 3.00 | 5.75 | 8.25 | .69 | 6.25 | 1.38 | .25 | .06 |
| 1-3/8 | 13-1/2 | 1018598 | 1018605 | 13.53 | 2.25 | 1.50 | 5.25 | 1.42 | 3.63 | 3.31 | 6.38 | 9.16 | .75 | 6.83 | 1.50 | .25 | .13 |
| 1-1/2 | 17 | 1018614 | 1018623 | 17.20 | 2.38 | 1.63 | 5.75 | 1.54 | 3.88 | 3.63 | 6.88 | 10.00 | .81 | 7.33 | 1.62 | .25 | .13 |
| 1-3/4 | 25 | 1018632 | 1018641 | 27.78 | 2.88 | 2.00 | 7.00 | 1.64 | 5.00 | 4.19 | 8.86 | 12.34 | 1.00 | 9.06 | 2.25 | .25 | .13 |
| 2 | 35 | 1018650 | 1018669 | 45.00 | 3.25 | 2.25 | 7.75 | 2.08 | 5.75 | 4.81 | 9.97 | 13.68 | 1.22 | 10.35 | 2.40 | .25 | .13 |
| 2-1/2 | 55 | 1018678 | 1018687 | 85.75 | 4.13 | 2.72 | 10.50 | 2.71 | 7.25 | 5.69 | 12.87 | 17.84 | 1.38 | 13.00 | 3.13 | .25 | .13 |

* **Note:** *Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit.*

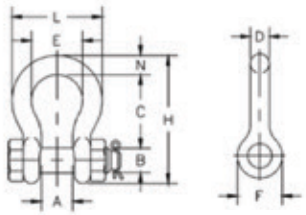
# G-2130 / S-2130 BOLT TYPE ANCHOR SHACKLES

G-2130 Bolt type anchor shackles with thin head bolt - nut with cotter pin. Meets the performance requirements of Federal Specification RR-C-271F Type IVA, Grade A, Class 3, except for those provisions required of the contractor.

- Capacities 1/3 thru 150 metric tons, grade 6.
- Working Load Limit and grade "6" permanently shown on every shackle.
- Forged – Quenched and Tempered, with alloy pins.
- Hot Dip galvanized or Self Colored. (85, 120, and 150 metric ton shackles are all hot dip galvanized bows and the bolts are Dimetcoted® and painted red)
- Fatigue rated (1/3t - 55t).
- Shackles 25t and larger are RFID EQUIPPED.
- Approved for use at -40°C (-40°F) to 204°C (400°F).
- Meets or exceeds all requirements of ASME B30.26.
- Shackles 85 metric tons and larger are individually proof tested to 2.0 times the working load limit.
- Shackles 120 metric tons and larger are proof tested, Magnetic Particle Inspected and provided with Serialized Pin and Bow.
- Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.
- 3.1 Certification as standard available for charpy and statistical proof test only up to 25 tons to DNV2.7-1 and EN13889.
- Crosby 2t through 25t G2130 anchor shackles are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby shackles are statistical proof and impact tested to 42 joules (31 ft.-lbs.) min. ave. at -20°C (-4°F). The tests are conducted by Crosby and 3.1 test certification is available upon request.
- All other 2130 and all 2150 shackles can meet charpy requirements of 42 joules (31 ft.-lbs) avg. at -20°C (-4°F) upon special request.
- Look for the Red Pin®…the mark of genuine Crosby quality.

**WARNING** | SEE WARNING INFORMATION ON PAGE 33.

Crosby®





Load Rated Fatigue Rated "QT"
QUIC-CHECK® MAXTOUGH® "TA"

| Nominal Size | Working Load Limit | Stock No. | | Weight Each | Dimensions (in.) | | | | | | | | | Tolerance +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| in. | t * | G-2130 | S-2130 | lbs. | A | B | C | D | E | F | H | L | N | C | A |
| 3/16 | 1/3 ‡ | 1019464 | – | .06 | .38 | .25 | .88 | .19 | .60 | .56 | 1.47 | .98 | .19 | .06 | .06 |
| 1/4 | 1/2 | 1019466 | – | .11 | .47 | .31 | 1.13 | .25 | .78 | .61 | 1.84 | 1.28 | .25 | .06 | .06 |
| 5/16 | 3/4 | 1019468 | – | .22 | .53 | .38 | 1.22 | .31 | .84 | .75 | 2.09 | 1.47 | .31 | .06 | .06 |
| 3/8 | 1 | 1019470 | – | .33 | .66 | .44 | 1.44 | .38 | 1.03 | .91 | 2.49 | 1.78 | .38 | .13 | .06 |
| 7/16 | 1-1/2 | 1019471 | – | .49 | .75 | .50 | 1.69 | .44 | 1.16 | 1.06 | 2.91 | 2.03 | .44 | .13 | .06 |
| 1/2 | 2 | 1019472 | 1019481 | .79 | .81 | .64 | 1.88 | .50 | 1.31 | 1.19 | 3.28 | 2.31 | .50 | .13 | .06 |
| 5/8 | 3-1/4 | 1019490 | 1019506 | 1.68 | 1.06 | .77 | 2.38 | .63 | 1.69 | 1.50 | 4.19 | 2.94 | .69 | .13 | .06 |
| 3/4 | 4-3/4 | 1019515 | 1019524 | 2.72 | 1.25 | .89 | 2.81 | .75 | 2.00 | 1.81 | 4.97 | 3.50 | .81 | .25 | .06 |
| 7/8 | 6-1/2 | 1019533 | 1019542 | 3.95 | 1.44 | 1.02 | 3.31 | .88 | 2.28 | 2.09 | 5.83 | 4.03 | .97 | .25 | .06 |
| 1 | 8-1/2 | 1019551 | 1019560 | 5.66 | 1.69 | 1.15 | 3.75 | 1.00 | 2.69 | 2.38 | 6.56 | 4.69 | 1.06 | .25 | .06 |
| 1-1/8 | 9-1/2 | 1019579 | 1019588 | 8.27 | 1.81 | 1.25 | 4.25 | 1.33 | 2.91 | 2.69 | 7.47 | 5.16 | 1.25 | .25 | .06 |
| 1-1/4 | 12 | 1019597 | 1019604 | 11.71 | 2.03 | 1.40 | 4.69 | 1.29 | 3.25 | 3.00 | 8.25 | 5.75 | 1.38 | .25 | .06 |
| 1-3/8 | 13-1/2 | 1019613 | 1019622 | 15.83 | 2.25 | 1.53 | 5.25 | 1.42 | 3.63 | 3.31 | 9.16 | 6.38 | 1.50 | .25 | .13 |
| 1-1/2 | 17 | 1019631 | 1019640 | 19 | 2.38 | 1.66 | 5.75 | 1.53 | 3.88 | 3.63 | 10.00 | 6.88 | 1.62 | .25 | .13 |
| 1-3/4 | 25 | 1019659 | 1019668 | 33.91 | 2.88 | 2.04 | 7.00 | 1.84 | 5.00 | 4.19 | 12.34 | 8.80 | 2.25 | .25 | .13 |
| 2 | 35 | 1019677 | 1019686 | 52.25 | 3.25 | 2.30 | 7.75 | 2.08 | 5.75 | 4.81 | 13.68 | 10.15 | 2.40 | .25 | .13 |
| 2-1/2 | 55 | 1019695 | 1019702 | 98.25 | 4.13 | 2.80 | 10.50 | 2.71 | 7.25 | 5.69 | 17.90 | 12.75 | 3.13 | .25 | .25 |
| 3 | † 85 | 1019711 | – | 154 | 5.00 | 3.30 | 13.00 | 3.12 | 7.88 | 6.50 | 21.50 | 14.62 | 3.62 | .25 | .25 |
| 3-1/2 | † 120 ‡ | 1019739 | – | 265 | 5.25 | 3.75 | 14.63 | 3.62 | 9.00 | 8.00 | 24.88 | 17.02 | 4.38 | .25 | .25 |
| 4 | † 150 ‡ | 1019757 | – | 338 | 5.50 | 4.26 | 14.50 | 4.00 | 10.00 | 9.00 | 25.68 | 18.00 | 4.56 | .25 | .25 |

* **Note:** *Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit.*

† Individually Proof Tested with certification.

‡ Furnished in Anchor style only and furnished with Round Head Bolts with welded handles.

# CM SUPER STRONG ANCHOR SHACKLES

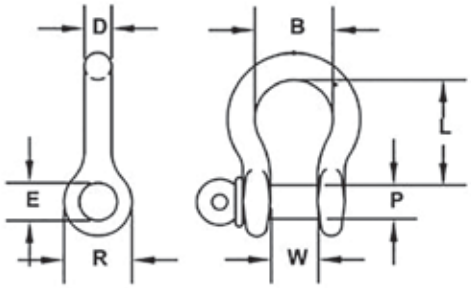
## WLL: 1/2 to 55 Tons
## Sizes: 3/16 to 2-1/2 in.

CM Super Strong Shackles are carbon-type shackles with strength ratings that are 17 to 50% stronger than comparable-sized carbon shackles. As a result, these shackles are designed with a 6:1 design factor. Anchor shackles can be side loaded or used for multiple connections.

- Manufactured from technically advanced micro alloy steel with optimal hardness for strength and ductility.
- Shackles show major deformation before failure
- Working load limit and traceability codes shown as permanent markings on body
- All shackles have alloy quenched and tempered pins
- Available in sizes 3/16" to 2-1/2"
- Available finishes include powder coated, galvanized or self-colored
- Shackles meet dimensional requirements and exceed performance requirements of RR-C-271
- Special testing and certification is available if requested at the time of the order

***Note:*** *Screw pin and bolt/nut/cotter shackles have a 6:1 design factor. 2-1/2" and all round pin shackles have a 5:1 design factor.*

**WARNING** | SEE WARNING INFORMATION ON PAGE 33.




| Size D (in.) | WLL (Ton) | Std Pkg. | Weight (lbs.) | Product Code | | | | | | | | | Dimensions (in.) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Screw Pin | | | Round Pin | | | Bolt, Nut & Cotter | | | | | | | | |
| | | | | Self Colored | Galva-nized | Orange Powder Coated | Self Colored | Galva-nized | Orange Powder Coated | Self Colored | Galva-nized | Orange Powder Coated | P | E | W | R | L | B min |
| 3/16 | 1/2 | 50 | 0.06 | M645 | M645G | - | M345 | M345G | - | - | - | - | 0.25 | 0.29 | 0.38 | 0.57 | 0.88 | 0.58 |
| 1/4 | 3/4 | 50 | 0.12 | M646 | M646G | M646P | M346 | M346G | M346P | M846 | M846G | M846P | 0.31 | 0.36 | 0.47 | 0.75 | 1.13 | 0.75 |
| 5/16 | 1 | 50 | 0.20 | M647 | M647G | M647P | M347 | M347G | M347P | M847 | M847G | M847P | 0.38 | 0.45 | 0.53 | 0.84 | 1.25 | 0.81 |
| 3/8 | 1-1/2 | 50 | 0.30 | M648 | M648G | M648P | M348 | M348G | M348P | M848 | M848G | M848P | 0.44 | 0.52 | 0.66 | 1.00 | 1.40 | 1.00 |
| 7/16 | 2 | 50 | 0.50 | M649 | M649G | M649P | M349 | M349G | M349P | M849 | M849G | M849P | 0.50 | 0.58 | 0.72 | 1.15 | 1.69 | 1.19 |
| 1/2 | 3 | 50 | 0.75 | M650 | M650G | M650P | M350 | M350G | M350P | M850 | M850G | M850P | 0.63 | 0.70 | 0.84 | 1.34 | 1.94 | 1.38 |
| 5/8 | 4-1/2 | 25 | 1.30 | M651 | M651G | M651P | M351 | M351G | M351P | M851 | M851G | M851P | 0.75 | 0.83 | 1.06 | 1.66 | 2.41 | 1.63 |
| 3/4 | 6-1/2 | 10 | 2.30 | M652 | M652G | M652P | M352 | M352G | M352P | M852 | M852G | M852P | 0.88 | 0.95 | 1.28 | 1.94 | 2.84 | 1.89 |
| 7/8 | 8-1/2 | 10 | 3.50 | M653 | M653G | M653P | M353 | M353G | M353P | M853 | M853G | M853P | 1.00 | 1.09 | 1.44 | 2.14 | 3.31 | 2.06 |
| 1 | 10 | 5 | 5.00 | M654 | M654G | M654P | M354 | M354G | M354P | M854 | M854G | M854P | 1.13 | 1.22 | 1.72 | 2.44 | 3.75 | 2.52 |
| 1-1/8 | 12 | Bulk | 7.00 | M655 | M655G | M655P | M355 | M355G | M355P | M855 | M855G | M855P | 1.25 | 1.36 | 1.84 | 2.66 | 4.02 | 2.69 |
| 1-1/4 | 14 | Bulk | 9.50 | M656 | M656G | M656P | M356 | M356G | M356P | M856 | M856G | M856P | 1.38 | 1.52 | 2.03 | 3.15 | 4.63 | 2.88 |
| 1-3/8 | 17 | Bulk | 12.50 | M666 | M666G | M666P | M366 | M366G | M366P | M866 | M866G | M866P | 1.50 | 1.65 | 2.25 | 3.25 | 5.19 | 3.25 |
| 1-1/2 | 20 | Bulk | 17.20 | M657 | M657G | M657P | M357 | M357G | M357P | M857 | M857G | M857P | 1.63 | 1.77 | 2.41 | 3.50 | 5.63 | 3.50 |
| 1-5/8 | 24 | Bulk | 23.50 | M685 | M685G | M685P | M385 | M385G | M385P | M885 | M885G | M885P | 1.75 | 1.88 | 2.66 | 3.91 | 6.13 | 4.13 |
| 1-3/4 | 30 | Bulk | 27.70 | M677 | M677G | M677P | M377 | M377G | M377P | M877 | M877G | M877P | 2.00 | 2.13 | 2.94 | 4.06 | 6.97 | 4.75 |
| 2 | 35 | Bulk | 39.00 | M658 | M658G | M658P | M358 | M358G | M358P | M858 | M858G | M858P | 2.25 | 2.38 | 3.28 | 4.51 | 7.44 | 5.50 |
| 2-1/2 | 55 | Bulk | 90.50 | - | - | - | - | - | - | MC860 | MC860G | - | 2.75 | 2.91 | 4.13 | 6.25 | 10.48 | 6.75 |

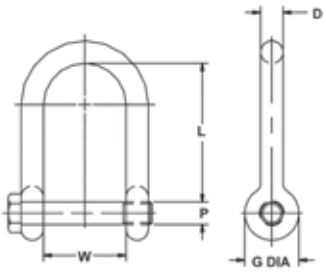
# CM LONG REACH SHACKLE

## WLL: 7,000 to 50,000 lbs.

As one of the only manufacturers of long-reach shackles, we designed these shackles for use in construction applications where a longer reach is needed to attach to pick points.

- Design factor of 5:1
- Meets the requirements of ASME B30.26
- Alloy Steel
- WLL forged on body
- Offered in self-colored or durable orange powder coated finish
- Do not point load. The load should be evenly distributed over the entire pin to achieve full working load limit.

**WARNING** | SEE WARNING INFORMATION ON PAGE 33.


| Size (in.) | WLL (Ton) | Screw Pin | | | Bolt, Nut & Cotter | | | Dimensions (in.) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Product Code | | Weight (lbs.) | Product Code | | Weight (lbs.) | | | | | |
| | | Self Colored | Painted | | Self Colored | Painted | | P | D | L | W | G |
| 5/8 | 7,000 | M7151 | M7151P | 1.80 | M9151 | M9151P | 1.95 | 0.75 | 0.63 | 4.00 | 2.25 | 1.57 |
| 3/4 | 10,000 | M7152 | M7152P | 2.72 | M9152 | M9152P | 3.21 | 0.88 | 0.75 | 5.00 | 2.75 | 1.81 |
| 1 | 19,000 | M7154 | M7154P | 5.86 | M9154 | M9154P | 6.31 | 1.00 | 1.00 | 5.50 | 3.25 | 2.38 |
| 1-1/4 | 28,000 | M7156 | M7156P | 11.90 | M9156 | M9156P | 12.90 | 1.38 | 1.25 | 6.19 | 3.88 | 3.06 |
| 1-1/2 | 34,000 | M7157 | M7157P | 19.60 | M9157 | M9157P | 20.70 | 1.50 | 1.50 | 7.00 | 4.50 | 3.50 |
| 1-3/4 | 50,000 | M7177 | M7177P | 30.70 | M9177 | M9177P | 33.30 | 2.00 | 1.75 | 8.00 | 5.25 | 4.00 |

# ENGINEERED SHACKLES WARNINGS

**WARNING**

**DO NOT EXCEED RATED CAPACITY.**

**Can fail if damaged, misused or overloaded. Inspect before use. Use only if trained.**
**DEATH or INJURY can occur from improper use or maintenance.**


# ENGINEERED PRODUCTS

## WE DESIGN CUSTOM ENGINEERED PRODUCTS, BELOW-THE-HOOK LIFTING DEVICES, AND LIFTING ATTACHMENTS FOR USE WITH ALL TYPES OF CRANES.

On-staff engineering and our commitment to ISO 9001:2015 guides us to continued success in quality products and processes.

We can design and fabricate all types of below-the-hook lifting solutions for any application—all of our work is done in compliance with ASME B30.20 and ASME BTH-1 standards.

Our products range from a common lift beam, to an engineered 150 lb. engine line lifter, to a 330-ton electric furnace lifter.

**Along with design and fabrication, we provide repair or recertification of below-the-hook lifting devices.**

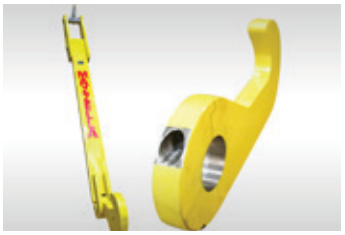

*LIFTING BEAMS*

*SPREADER BEAMS*

*C-HOOKS / COIL LIFTERS*

*LIFTING TONGS / GRABS*

*PALLET LIFTERS*



*LADLE HOOKS*


*DIE HORSES*

*OTHER PRODUCTS*

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**HOMEMADE LIFTING DEVICES ARE NEVER SAFE TO USE.**

# MAZZELLA CAN HELP GET YOU INTO COMPLIANCE.




## CLICK OR SCAN THE CODE TO DOWNLOAD YOUR GUIDE TO DESIGNING YOUR CUSTOM LIFTING DEVICE


# HOISTS, PARTS, & REPAIRS

**MAZZELLA IS YOUR ONE SOURCE FOR HOISTING PRODUCTS WITH LIFTING CAPACITIES RANGING UP TO 100 TONS. WE OFFER MANY TYPES OF ELECTRIC, AIR, AND MANUAL HOISTS FROM ALL MANUFACTURERS FOR LIMITLESS APPLICATIONS.**

We are also one of the largest authorized stocking master parts depots for:

CM · COFFING HOISTS · Yale HOISTS · LITTLE MULE · SHAW-BOX · BUDGIT Hoists · HARRINGTON · CHESTER HOIST · LUG-ALL · J·D·NEUHAUS · R&M MATERIALS HANDLING INC. · ACCO · ELECTROLIFT · Detroit Hoist · THERN · JEAMAR WINCHES · Tractel

**If you are not looking to replace a hoist unit, we also have a Hoist Repair Department available to get your hoist back up and running.**


*MANUAL HOISTS*

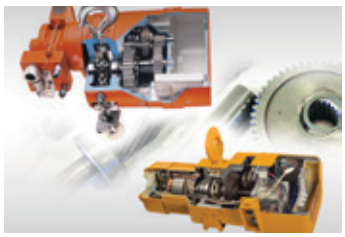

*ELECTRIC HOISTS*

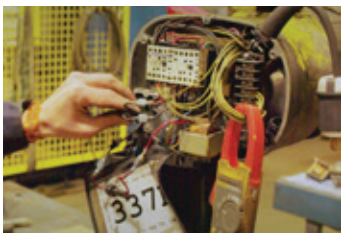

*WIRE ROPE HOISTS*


*AIR / PNEUMATIC HOISTS*


*TROLLEYS*


*WINCHES*


*HOIST PARTS*


*HOIST REPAIR*

**FOR ORDERS OR QUESTIONS, CALL 800-362-4601, OR GO TO: MAZZELLACOMPANIES.COM**

# INSPECTION & REPAIRS

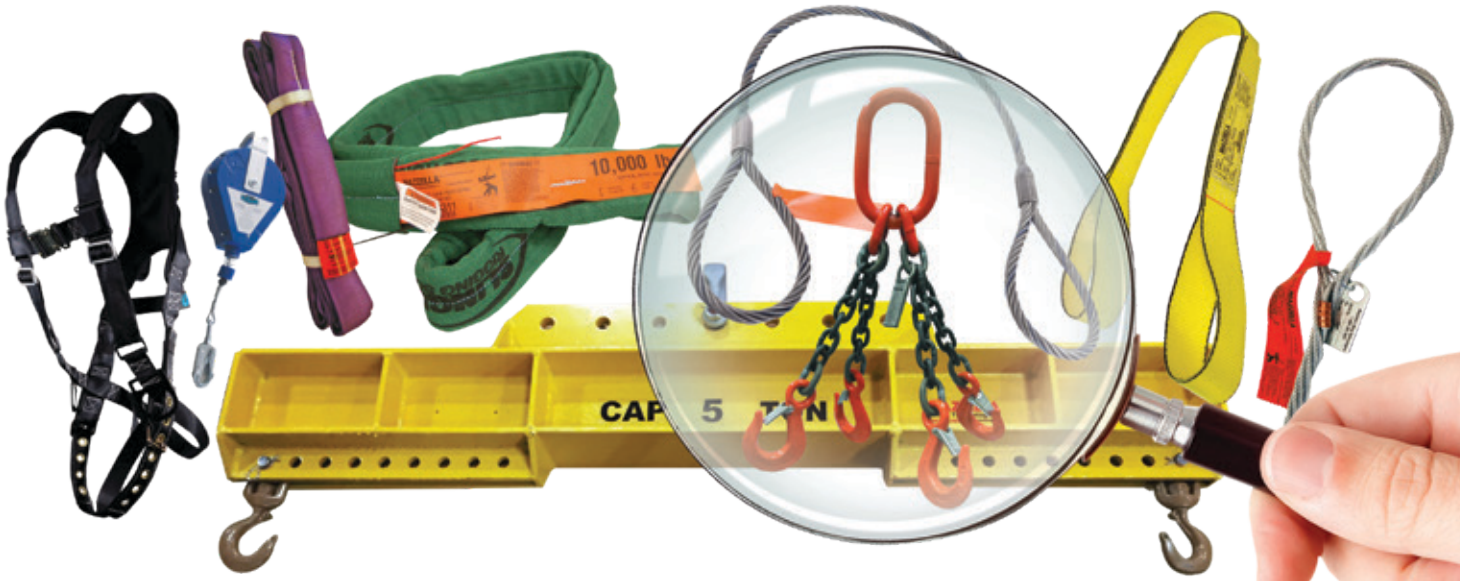
## OSHA LAW (1910.184) REQUIRES...

**THAT SLINGS, FASTENINGS, AND ATTACHMENTS SHALL BE INSPECTED FOR DAMAGE OR DEFECTS BY A COMPETENT PERSON DESIGNATED BY THE EMPLOYER.**

---

## FOR INSPECTION CRITERIA, REFERENCE THESE ASME STANDARDS:

**ASME B30.9 (Slings), ASME B30.10 (Hooks), ASME B30.20 (Below-the-Hook Lifting Devices), and ASME B30.26 (Rigging Hardware)**



## OUR INSPECTORS ARE CERTIFIED TO MAKE SURE YOUR PRODUCTS MEET OSHA AND ASME REQUIREMENTS.

Our team of certified inspectors can provide rigging inspections that meet or exceed government requirements (OSHA and ASME). We also provide personal fall protection inspections and basic level NDT inspections to support our visual inspections.

**FOR ORDERS OR QUESTIONS, CALL 800-362-4601, OR GO TO: MAZZELLACOMPANIES.COM**

# INSPECTIONS

Our coverage starts with the Mazzella 3-Phase Compliance Program, a survey and inspection program that gives you all the options on standard and special fabricated lifting device compliance. We offer the latest in inspection-data-gathering technology and web-based reporting for your immediate availability. We also have programs designed specifically for crane and hoist inspections.

## Crane & Hoist Inspections

We provide crane inspections, OSHA compliance, preventative maintenance programs and hoist inspections.

## Sling Inspections

We offer on-site sling inspections. Our highly-trained and qualified personnel will help ensure that your rigging and personnel are safe. We employ more than 90 certified inspectors.

## Fall Protection Inspections

Since many companies today do not want the responsibility or liability of inspecting their own safety equipment—as required by OSHA—we offer this service, too.

The inspection program will follow the procedures recommended by the manufacturer and regulatory bodies, and includes a trained individual or team of experienced professionals to inspect all of your safety equipment on-site or at a Mazzella Service Center.

## Below-the-Hook Inspections

Our offerings include lifting-device evaluations starting with visual inspections up to, and including, magnetic particle and load test. We can offer these in your plant or in ours. We inspect each device in accordance with ASME B30.20 standards.

Our on-staff engineering and in-house manufacturing can provide reverse engineering of your existing device to design and manufacture a new device. Mazzella is a member of ASME B30.20 and BTH-1 committees with more than 100 years employed experience in engineered lifting devices.


# REPAIRS

Our factory-trained technicians provide a wide variety of repair services for cranes, blocks, hoists, slings and clamps…just to name a few. These repairs can be done at your location or at our repair centers, whichever you prefer. All repairs are backed with a one-year warranty.

## Scheduled Preventative Maintenance

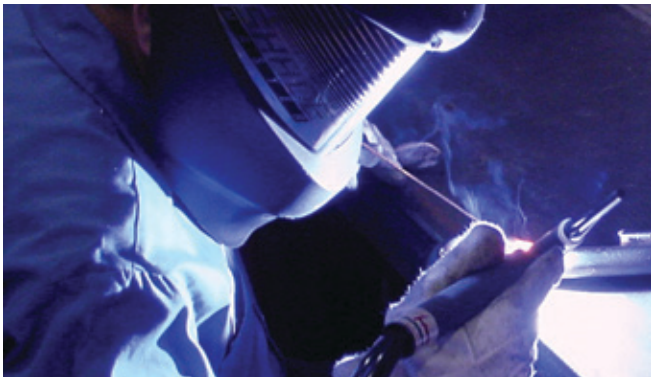
We provide scheduled frequent inspections, as well as annual inspections and repair. Our repair programs will ensure you meet all OSHA guidelines.

## Emergency Repair

Our factory-trained technicians are available 24/7 to perform emergency repairs as needed. We'll get your equipment up and running as soon as possible.

## Authorized Warranty Repair

We provide authorized warranty repairs for many manufacturers of cranes, hoists, slings and plate clamps.

MAZZELLA®

## SLING INSPECTION AND REPAIR PROGRAM


We offer on-site sling inspections. Our highly-trained and qualified personnel will help ensure that your rigging and personnel are safe. We make it easy for you to comply with OSHA standards!

1. **Field inspection**—by one of our certified inspectors
2. **Pick-up**—our inspectors can often take the damaged slings with them or arrange for pick-up of the slings
3. **Repair & return**—after receiving your approval, we will repair the slings and return them promptly

Remember OSHA's new sling tag requirements… Basically, this revision prohibits the use of any sling that does not have a permanently affixed identification tag. **We provide unique serial numbers on all our slings.** We can inspect, test and tag your slings that currently don't have any tags on them. We can help you comply with this new requirement for a fraction of the cost of new slings.

**Other inspection services offered:**

**Mobile Test Lab**—Inspection and load testing at your location meets OSHA inspection and testing requirements—up to 150,000 lbs. capacity and 14' test bed.

## CLAMP REPAIR SERVICE

**Ask us about our clamp repair service—all brands and capacities...**including, but not limited to: Renfroe, The Crosby Group, Campbell, CM, SuperClamp and Terrier.

When necessary, the worn or damaged parts may be replaced by a qualified repair service center like Mazzella.

Contact your local Lifting Specialist to arrange for pick-up of your lifting clamps for inspection and/or repair!

RENFROE LIFTING CLAMPS

CM

Crosby®

Campbell®

TERRIER LIFTING CLAMPS & EQUIPMENT

SUPER CLAMP™ EXCELLENCE IN DESIGN

WILTON®

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- Woodland, WA
- Edmonton

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**MAZZELLACOMPANIES.COM**

# FALL PROTECTION

**WE ARE A LEADING SUPPLIER AND INSTALLER OF ENGINEERED FALL PROTECTION SYSTEMS IN THE U.S.. WE ALSO PROVIDE FALL PROTECTION SOFT GOODS, SUCH AS HARNESSES, LANYARDS, SELF-RETRACTING LIFELINES, SCAFFOLDING, NETTING ... AND MORE!**

All of our engineered systems and products meet or exceed the federal criteria required by OSHA and ANSI and can be customized with your individual fall protection and financial needs in mind.

We specialize in site analysis and evaluation, as well as employee training for equipment installed or products sold. We also offer general training, system inspection, documentation storage, and procedure development / rescue plans.

We are a master distributor for Ultra-Safe, Capital Safety, 3M, Honeywell Miller, Gorbel, Tractel, and Rigid Lifelines … just to name a few. We also build custom fall arrest and fall restraint solutions in-house. With this vast array of manufacturers and in-house capabilities, we are able to provide the best products for the best price to meet your specific fall protection needs.

## FALL PROTECTION TRAINING

Our comprehensive fall protection courses (basic to advanced) target specific businesses that require height compliance safety training for their specific industry. Added to our training, we also provide fall arrest and fall restraint systems and products — lifelines, harnesses, lanyards, anchor points, rope grabs … and more! These products meet ANSI regulations, as well as EN and Canadian codes.


LIFELINE SYSTEMS


LIFELINES


MOBILE FALL PROTECTION


FULL-BODY HARNESSES


LANYARDS / RETRACTABLES


REBAR ASSEMBLIES


CARABINERS


ROPE GRABS


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RAPPELLING ROPES


BODY BELTS / WORK SEATS


CONFINED SPACE PRODUCTS


KITS


INSPECTIONS / REPAIR

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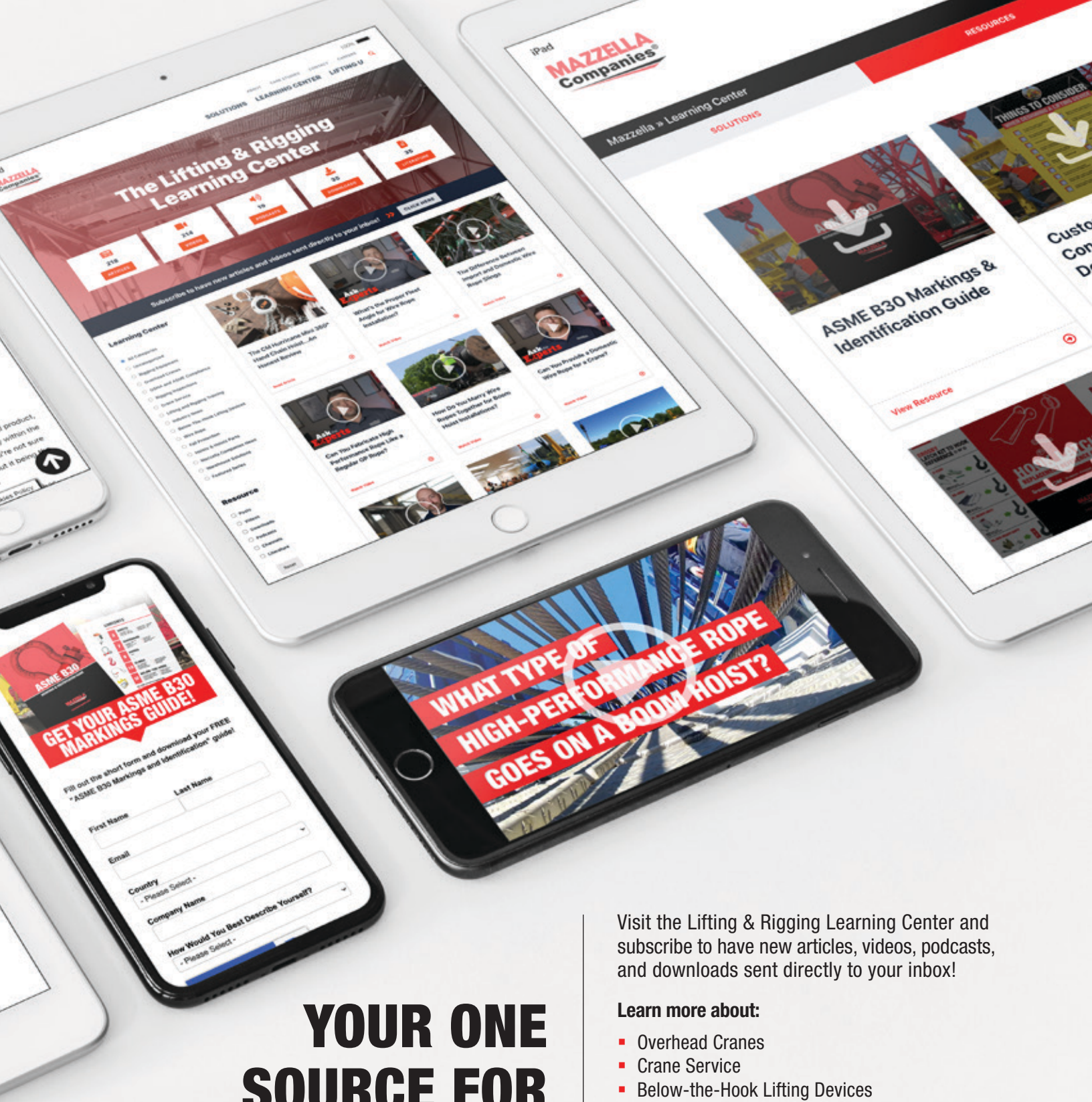


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